

Manufacturers Record

Exponent of America



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Baltimore, Md.
MARCH 22, 1923



"KNOW THY COUNTRY"

Every effort made by the people of the South, men and women alike, to broaden the knowledge among Southern people, as well as among others, as to the history of the old South, the amazing achievements made in business and industry prior to the Civil War, what the South has accomplished since that struggle, and the resources on which to found a great empire of industry and wealth, must of necessity inure to the benefit of every class of people.

If the South had no pride of ancestry, no pride in the achievements of the men of the old South, and of the men who have wrought marvels in the rebuilding of the South, it could not expect much of its posterity. If the younger generation are to be "worthy sons of worthy sires" they must have their ambitions stimulated by a broadening knowledge of what the South has achieved, of the influence of the South in the building of the Nation, and of the resources which it contains, offering unlimited opportunities for business expansion.

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It is an inspiration to study these facts.

The Blue Book is a handbook of Southern material activities and of educational advancement, State by State.

It is a well from which one can draw, without limit, water of inspiration.

We believe that every business concern in the South should send copies of this book to correspondents and business associates in the North and West in order that the people of those sections may rightly understand the South and know something of what it has achieved, and catch a vision of what it offers for the investment of capital, whether that capital be money or brains or brawn.

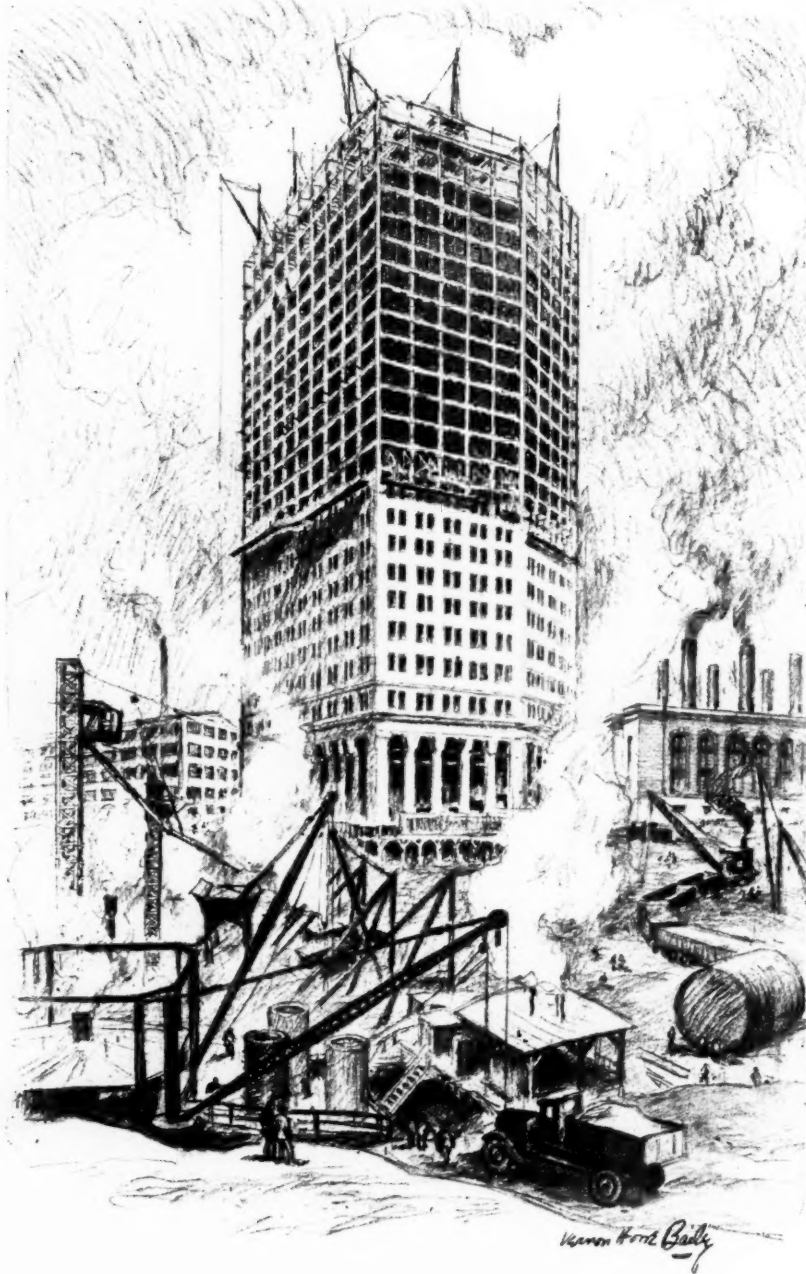
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The Blue Book of Southern Progress for 1923 will be ready for distribution during April at the usual time when complete statistics for 1922 will have been available. Advance orders are invited now.

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Manufacturers Record

Exponent of America

MARCH 22, 1923

Volume LXXXIII

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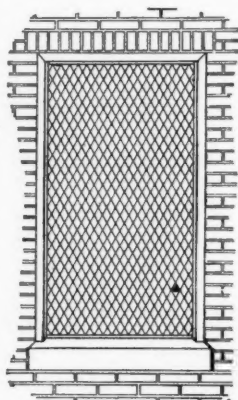
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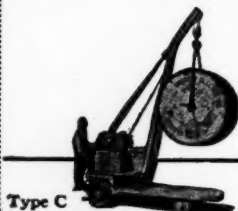
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of the South and Southwest as the Nation's Greatest Material Asset

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In order to avoid delays all correspondence pertaining to news or advertising matters should be addressed directly to the Manufacturers Record, Baltimore, Md., and not to individual editors, officers, employees or any branch office.

THE article in the MANUFACTURERS RECORD of March 15 headed "From Proceedings of U. S. Senate" should have been credited to the "Congressional Record" from which it was taken and in the copy sent to the printers this credit was given but in some way it was omitted.

HEARTENING COMMENDATION OF STAND ON GREAT QUESTIONS.

The Baptist Bible Institute,
New Orleans, La., February 26.

Editor Manufacturers Record:

I am just in receipt of the reminder that my subscription is about to expire and I hasten to get my check to you so that I may not lose one single copy. There are two magazines that I expect to take as long as I live, one is the MANUFACTURERS RECORD and the other the Geographic Magazine.

I think that the MANUFACTURERS RECORD is the greatest exponent of true patriotism and true Americanism in the whole nation. I take off my hat to you and pray that God may give you wisdom and strength and courage to stand always where you stand today on all the great questions that we face today as a nation.

Every preacher of the Gospel and every Christian worker in all this land is under lasting obligation to you for the brave stand you have taken on all the great moral questions of the day, and the South can never repay you for the brave fight you have put up for justice to our part of our great country.

With best wishes for all who have any part in making the MANUFACTURERS RECORD what it is, I am, etc.

Rev. R. P. MAHON.

THE WHOLE WORLD MOVING INTO A HIGHER AND BETTER LIFE.

REVIEWING the business conditions throughout the country the United States Department of Commerce, under date of March 17, said:

"Early figures on February business received by the Department of Commerce indicate a continuation of the great activity in industry, especially in iron and steel. Although pig iron production fell below 3,000,000 tons the daily average was higher than in January and the daily rate for steel ingot production was very close to the January rate. Unfilled orders of the United States Steel Corporation increased to 7,283,969 tons, the highest since January, 1921. Locomotive shipments were slightly less than in January but unfilled orders reached a new high record at 2220, equal to ten months' output at the January rate of shipment. The value of building contracts awarded in February was 16 per cent higher than in January and 33 per cent greater than in February, 1921. The greatest activity in this line is reported in the West and South. Bituminous coal production fell off slightly in February but has increased in the first two weeks of March. Lumber production for the week of March 3 exceeded that of any week of 1922, with one exception. Wholesale prices continue to advance, especially of cotton, copper and iron and steel. Cotton at over 31 cents and copper above 17 cents are the highest since 1920. With business failures declining, bond prices receding, stocks advancing, bank loans increasing slightly and wholesale prices advancing and production at high levels, the usual signs of business prosperity are in evidence."

This optimistic statement by the Department of Commerce only serves to confirm the views expressed in the MANUFACTURERS RECORD last week. Everywhere there is increasing activity and prosperity and perhaps the most hopeful sign in all the wide ramifications of improvement is that the railroads have ordered so freely of cars and locomotives that the locomotive shops already have orders ahead enough to run them to full capacity for the balance of this year. With increasing rolling stock the railroads will come more nearly to keeping up with the increase in business. Better transportation will mean the enlargement in the volume of business and it will ultimately mean the ability of the railroads to reduce freight rates, because the greater volume of traffic, more easily handled on account of more abundant facilities, will lessen the cost of operation.

The whole situation is cheering in the extreme. The advance in copper is almost as important, viewed from a national and international standpoint, as is the advance in cotton. The copper market has long been depressed, much of the output being sold at less than cost. Cotton, like other farm crops, was long selling below the cost of production, but now, with a world demand growing for iron and steel and copper and cotton and grain, the wail of the pessimist should no longer be heard in the land.

This world is not headed downhill to ruin. It is headed uphill to prosperity. In August, 1914, the MANUFACTURERS RECORD said that though billions of dollars and millions of lives would be lost in the fearful carnage in Europe, humanity would on the wreck and ruin wrought there build a

newer and higher civilization. We have never doubted the fulfillment of that prediction.

We are not unmindful of the turmoil and disorder in Central Europe nor of the chaotic conditions in Russia, but there is a movement under way in all of Europe presaging better things for mankind. The conditions in Germany are merely the fulfillment of the divine statement that "the nation which forgets God shall be turned into hell;" and the same is true of Russia. These countries are paying the penalties of their criminality. But in Russia especially there is under way a revival of the spirit of religion, which is sweeping through much of Eastern Europe, giving promise of a newer and higher civilization and a degree of religious and civil liberty never before known in that country. Germany will suffer until through penitence and in sackcloth and ashes it has redeemed itself and made its people and its government worthy of the world's confidence.

But the conditions which exist in Germany will not prevent the redemption of Europe from the poverty and the disastrous effects of the World War, nor will they halt the progress of the world at large. The mighty forces of invention, the spirit which has conquered the sea and the air, the telephone, the telegraph, the radio and all other wonder working miracles of the day, will all hasten the progress of civilization and bring to the distant point of the world, living until now in the darkness of the Middle Ages, a higher and a greater and a better life.

Civilization is on the upgrade.

The business prosperity of the hour is only an indication of the upward movement of the whole world into the higher realms of ethics and religion and material advancement which will fulfill the prediction made in 1914 on the cover page of this paper that humanity would build a higher and better civilization as an outcome of the fearful struggle which had then just commenced.

A MEXICAN CENTRAL BANK PROPOSED

THE Wall Street Journal reports the prospect, based on the action of the House of Representatives of Mexico, of the establishment of a banking system somewhat on the line of the Federal Reserve System. The Journal says, "The new bank will be modeled after, and in many respects similar to our Federal Reserve system. Nevertheless there are many provisions in the Mexican bill that make it quite different."

These differences as shown by the Journal are very radical, and may perhaps indicate that Mexico is wiser in some respects than this country has been. The proposed bill looks to the organization of a Central Bank of Mexico, presumably with a number of branch banks, the main bank being chartered for fifteen years subject to extension by legislative power.

Unlike the Federal Reserve Bank of this country, the proposed Mexican Bank, which is to have an initial capital of \$50,000,000 which may be increased to \$100,000,000, will be controlled by 51 per cent of stock ownership by the Government. Under the Federal Reserve System in this country 6 per cent is first paid to stockholding banks on their investment, and after 100 per cent subscribed capital has been paid into the surplus fund plus 10 per cent of the net earnings, the balance goes to our Government as a franchise tax. In Mexico, however, it is provided that 51 per cent of all profits shall be paid to the Government, and as a compensation for the privilege of issuing notes the Bank of Mexico shall pay the Government annually an interest on the daily balance of productive circulation amounting to one-third of the discount rate fixed by the bank, provided such rates are under 12 per cent. Should the rate exceed 12 per cent the Government shall receive one-third of the profit obtained by the bank in any transaction made at such rate. It is proposed to limit the issue of bank notes so that added to de-

posits payable on demand, or within three days, they shall not exceed twice the cash and bars of gold and silver on hand.

One provision of the charter if adopted will permit the Federal Government after fifteen years to purchase all shares in the hands of the public at the price set in the previous approved balance sheet, which will probably be the book value of the stock.

Despite revolutionary conditions in former years Mexico is a wonderful country with some very wonderful people in it. A year or two before Diaz was forced to retire, the editor of the MANUFACTURERS RECORD spent quite a while in Mexico and traveled for some days with Enrique C. Creel, afterwards ambassador to this country. Mr. Creel and his father-in-law, Governor Terraza of Chihuahua, were counted among the great multi-millionaires of Mexico.

Mr. Creel was president of a \$4,000,000 bank, and the owner of many industries including iron and steel works, a cotton seed oil mill, a dynamite plant, a soap factory, and other things running far into the millions of investment. Afterwards he became president of a \$25,000,000 bank in the City of Mexico. He was driven out of Mexico by the Madero revolution and located in Los Angeles.

In discussing financial conditions in Mexico and the United States on that visit Mr. Creel stated that there had been no bank failures in Mexico for fifty years, and that under proper legislation there was no excuse whatever for any bank failure. Incidentally, he stated that under Cleveland's administration Secretary Carlisle had invited him to Washington to discuss a new financial system for the United States.

Many of our people have a wholly inadequate conception of Mexico's amazing material resources, Humboldt having claimed for Mexico that it was "the most highly mineralized region in the world." They have very little conception of Mexican progress, of the splendor of the City of Mexico, one of the world's most beautiful cities; and of the superb homes of the leaders in Mexico. Nor have they any full realization of the standard of education in that country, nor of the fact that a very large number of Mexican men and women are educated in the best universities in Europe.

The relations between Mexico and the United States, socially, diplomatically and commercially, ought to be very much closer than they are; and more American business men should travel through Mexico and know that country better than they do.

AN OLD CONFEDERATE'S PLEA FOR THE SOUTH TO KNOW ITSELF.

M R. B. H. TYSON, of Pikeville, N. C., writing to the MANUFACTURERS RECORD in regard to the Blue Book of Southern Progress, says:

"We congratulate you on your enterprise, patriotism, and your sympathy and loyalty to the dear South and her people. I wish to the good Lord I were able, and I would order it for the schools of the South and the Chambers of Commerce. What a pity that our people don't know of their own power and resource! You have thrown luster upon the fundamental principles for which they made the supreme sacrifice, and did your noble manhood great honor, in defending their cause, and too, in illuminating the minds of the South and the people of the world, who fought us by their ignorance and prejudice in the great war between the states. We are grateful to you for the Blue Book. We read and talk it to our people. The writer was a confederate veteran nearly four years, and hopes he can attend the reunion to be held at New Orleans on April 12-13-14. He will talk your Blue Book and advise all the Veterans to buy it, also the Sons and Daughters of the Confederacy. Their hearts would rejoice in reading your Blue Book.

"May the good Lord bless and protect you, is my prayer."

A Warning to English and Other Cotton Manufacturers.

THE Manchester correspondent of the MANUFACTURERS RECORD writes us: "The American spinning section of the Lancashire cotton industry has been recommended to work half time during the month of March. A resolution to the above effect was passed today at a meeting held in Manchester of the American section of the Federation of Master Cotton Spinners Associations."

The Secretary of the Association in announcing this decision stated: "The present deplorable state of the cotton industry demanded drastic action being taken, and a resolution was carried to the effect that members of the Federation in the American section be recommended to curtail production to the extent of 50 per cent during the month of March."

These English spinners, facing a depression in their industry, have decided that the only way to meet the depression is to reduce their output to the extent of 50 per cent for the time being. Apparently there was not a single suggestion that these spinners owed to the world any moral responsibility to provide cotton goods for the inhabitants of India and other countries. But the moment it is suggested that the South reduce its cotton production because of the "deplorable state" in which it has found itself during many years of low prices there is a great howl raised in New England, and in England, and on the Continent against such an outrageous act on the part of Southern cotton growers. They are told with sanctimonious hypocrisy of those who take that view that the cotton grower "owes a moral responsibility to provide cotton for the world." But these English spinners do not for a moment hesitate, when their business is unprofitable, to curtail their output.

The same is true of the New England mills. When they found that they could not continue to produce cotton goods at a profit and wanted lower rates of wages they properly closed their mills and for months kept them closed.

In a statement recently sent out by Sir Charles W. Macara, accounted one of the great textile authorities of England, and one who never denies that position, there are many statements which show the trend of mind of Sir Charles in favor of lower prices of cotton, notwithstanding the fact that once in awhile he indicates a belief that we cannot again produce cotton in the South at as low a price as the figures at which it sold for many years. In his recent statement published in the Textile World of Manchester he says:

"I do not think the world will be called upon indefinitely to pay the present high prices."

He expressed the belief that it may not be possible ever again to make and sell cotton goods at pre-war prices; but he adds that "the cost of producing cotton is bound to come down as the cost of living falls," and he adds:

"I venture to think that raw cotton itself will before long assist in the great scheme for cheapening cotton cloth and bringing the cotton trade into a position of prosperity. * * * Besides, there is no spinner who is satisfied that the high prices ruling today for American cotton are due simply and solely to the ravages of the boll weevil. The rise in price of middling American during the past twelve months from 10d. to 15d. a pound was due almost entirely to speculation

on the exchanges in America, coupled with the propaganda that has been going on for the shortening of the crop. One is well aware that cotton cannot be produced today at the same price as before the war, but there is reason in all things, and the spinners of Lancashire cannot but feel that they are being made the sport of men who have no interest whatever in cotton beyond the gambling interest. * * * Had the raw material remained round about 10d. a pound, which would no doubt have paid the planter even in these days, the spinners and manufacturers of the world would have had a totally different tale to tell now. * * *

"Now, it is well for America to know that Lancashire is not inclined to put up with this kind of thing indefinitely."

"Lancashire has no feeling whatever in the matter, but as a business proposition it will be obliged to safeguard itself in the matter of quantity and price. Cotton is not a 'God-given monopoly' of any one country, and if America does not keep pace with the world's requirements, or runs the price up to a point which makes the purchase of cotton goods impossible for the great mass of the poorest people in the world, then there is nothing for it but to look elsewhere for a great part of our supplies."

There is much more of the same kind in Sir Charles' statement, but we wonder how a man in his position can go so egregiously wrong by claiming that at 20c a pound the Southern planters would have found a fair profit even in these days; likewise how Sir Charles can ever for a moment be denouncing the rise in the price of cotton or the lessening of the crop in this country while approving the shutting down of production by the mills of Lancashire, for he has heartily approved that act.

The threat of Sir Charles that "Lancashire is not inclined to put up with this kind of thing indefinitely" indicates a narrowness of vision, and we regret to say an incomprehensible lack of wisdom from a man of Sir Charles' position. England has been trying for 75 to 100 years to break the South's monopoly of the world's cotton supply. It worked more vigorously 75 years ago to accomplish that than it is doing now, and it is no nearer success now than it was then.

Any intelligent man who cared to make a study of the facts in regard to the cost of cotton production—and Sir Charles poses as an intelligent man—could have very readily discovered that the average cost of cotton production last year exceeded the present average price of cotton. Here and there an individual farmer may make some money upon his cotton crop, but even at 30c a pound cotton growers as a whole are not getting rich on cotton growing, by any manner of means, and this Sir Charles could easily have learned for himself if he had taken the trouble to investigate.

Lancashire should be very careful about threats such as Sir Charles puts out, to the effect that it will not "put up with this kind of thing indefinitely," for Lancashire cannot set the price for American cotton. It can fight, as it has done for 100 years, to beat down the price of cotton; it can do many unwise things, such as the things which Sir Charles

has been vigorously commending; but all of the propaganda of that kind only intensifies the South in its determination to control the price of its cotton and it will soon learn, as the cotton manufacturers of England have done, to shorten production when the product is selling at less than its cost.

The lordly air of superiority and the assumption which the English spinners and some New England spinners take in the discussion of the cotton crop of the South deserves only the severest condemnation. These men have fattened for years on the poverty of the South. They have sucked the very lifeblood out of the Southern cotton grower. They have grown rich through the impoverishment of the cotton grower. The blood of the cotton grower has fertilized their wealth. They have done all in their power to keep the Southern cotton grower and his family in poverty, in illiteracy, rejoicing in low prices even though they knew that low prices meant starvation mentally and physically to the cotton grower.

We venture the assertion that there is no other class of business men on the face of the earth which for a hundred years has with such diabolical evil-mindedness sought to hold the cotton grower in the chains of poverty as have the cotton manufacturers of Europe and a great many of the cotton manufacturers of this country. Some of these people have even reached the point where they have seemed to have convinced themselves that it is their holy duty to regard the cotton grower as made for their express benefit and whose welfare would never for one moment concern them. Their consciences have been blighted as with a hot iron when it comes to dealing with the cost of cotton production and the poverty which they have enforced upon the cotton grower.

Men like Sir Charles Macara and others who stand before the world as teachers of morality and honor and integrity in business should bow their heads in shame when they remember that through an evil power exercised with fearful force they have held the cotton growers of the South in a poverty almost as great as the poverty of the people of India, the poorest people on the face of the earth as a whole, a people who have to produce cotton at a price which means literal starvation to them. The spirit which fights to break down a decent price for cotton, whether it be raised in India, in Egypt, or in America, is a spirit which dishonors every man who professes to love humanity or to believe in Almighty God.

FLORIDA RUBBER GROWING TO BE INVESTIGATED.

FLORIDA possibilities for rubber production will be investigated by the United States Department of Agriculture.

Mr. P. L. Palmerton, Chief of the Rubber Division of the Department of Commerce, in a letter to the MANUFACTURERS RECORD, as to the feasibility of rubber growing in Florida, writes:

"We are pleased to advise that this phase of the investigation will fall under the jurisdiction of the Department of Agriculture, which is expected to make extended scientific investigations looking toward the adaptability of various areas in the United States for the production of rubber on a commercial basis."

IMPORTS AND EXPORTS OF FOREIGN MERCHANDISE CONTINUE HEAVY.

CONTINUED heavy imports of merchandise from foreign countries are shown in figures issued by the Department of Commerce for the 12 month period ending December, 1922. The total for the year is \$3,116,054,051, compared with \$2,509,147,570 for 1921 and with \$1,792,596,480 for the pre-war year of 1913. The month of December, 1922 represents an increase of merchandise imports of about \$60,000,000 with its total of \$297,000,000, as against \$237,495,505 for December, 1921. The increase for 1922 over 1921 amounts to \$606,906,481.

IMPORTS OF MERCHANDISE, BY MONTHS.

Imports.	1922.	1921.	1913.
January	\$217,185,396	\$208,796,989	\$163,063,438
February	215,743,282	214,529,680	149,913,918
March	256,177,796	251,969,241	146,194,461
April	217,023,142	254,579,325	155,445,498
May	252,817,254	204,911,186	133,723,713
June	260,460,898	185,689,909	131,245,877
July	251,771,881	178,159,154	139,061,770
August	281,376,403	194,768,751	137,651,553
September	298,493,403	179,292,165	171,084,843
October	276,098,811	188,007,629	132,949,302
November	291,905,785	210,948,036	148,236,536
December	297,000,000	237,495,505	184,025,571

12 mos. ending Dec. \$3,116,054,051 \$2,509,147,570 \$1,792,596,480

The exports of merchandise for the eight month period from July, 1922 to February, 1923 are shown in the accompanying table, also the exports for the twelve month period, 1921-22 and for 1913-14. It will be observed that the total of \$2,657,064,475 for eight months of 1922-23 exceeds the corresponding period of 1921-22 with its total of \$2,480,021,516 by \$177,000,000. February, 1923 exceeds February, 1922 by \$60,000,000.

EXPORTS OF MERCHANDISE, BY MONTHS

Exports.	1922-23.	1921-22.	1913-14.
July	\$301,157,335	\$325,181,138	\$160,990,778
August	301,774,517	366,887,538	187,909,020
September	313,196,557	324,863,123	218,240,001
October	370,718,595	343,330,815	271,861,464
November	379,999,622	294,092,219	245,539,042
December	344,324,070	296,198,373	233,195,628
January	335,893,779	278,848,469	204,066,603
February	310,000,000	250,619,841	173,920,145
March .....	.....	329,979,817	187,499,234
April .....	.....	318,469,578	162,552,570
May .....	.....	307,568,828	161,732,619
June .....	.....	335,116,750	157,072,044

8 mos. ending Feb. \$2,657,064,475 \$2,480,021,516 \$1,695,722,681
12 mos. ending June 3,771,156,489 2,364,579,148

Exports for eight months from July last to the end of this February exceed by nearly \$300,000,000 the total value of exports for the entire fiscal year ending June 30, 1914. And yet some people have thought we were losing our foreign trade!

A SUGGESTION AS TO SATSUMA ORANGE CULTURE.

AS a result of the gift to the city of Mobile, Ala., of a Satsuma orange tree by Michael J. McDermott, president of the Farmers & Mechanics Bank there, the Board of City Commissioners have adopted resolutions that the tree be planted in one of the parks where it will thrive, and at the suggestion of Mr. McDermott a request is made on all citizens to plant one or more of these trees in their front yards, not only because of their beauty and of the luscious fruit which they bear, but also because it will indicate to visitors the appreciation of the residents for the Satsuma orange industry. The Board further expressed its appreciation of the enterprise shown by Mr. McDermott in making generally known the advantages of Mobile and vicinity for the cultivation of this variety of citrus fruit.

While the peculiar suitability of the region around Mobile for the Satsuma orange industry is widely known, it is not so generally appreciated as it might be, and the action of Mr. McDermott in urging that citizens all do their share to display, each on his or her own account, a living example of the Satsuma orange on their premises, is a most excellent suggestion. There is no telling the extent of the benefit it will be to the southern part of Alabama and adjacent territory.

POSSIBLE RESULTS OF THE RUHR INVASION.

EMPHASIZING the fact that France's invasion of the Ruhr could not fail to have at least two important results of constructive value to the world, Mr. R. M. Bryan of New York, eastern manager of the Black Diamond, in an address on Saturday before the Chicago Council of Foreign Relations, indicated some of the steps which have led to the present situation. His position in this respect, particularly as to the full justification of France by every legal and moral right to enter the Ruhr, was outlined in detail in an article which Mr. Bryan wrote for the MANUFACTURERS RECORD of March 1.

The invasion makes it possible to safeguard France and other countries from the employment of the great German chemical industry in the production of poisonous gases for wars of the future. This in itself is a tremendous achievement, and other possible good which Mr. Bryan pointed out is the liberation of the German people themselves from the tyranny of a few leading industrialists of that country. The people have been forced to bear the burdens while the war profiteers prior to the French invasion had almost entirely escaped.

It is possible now that through French occupation some plan will be devised to permit Germany to make use of her great chemical industries for peace-time purposes and yet to afford some effective check against their use for poisonous gas production in time of war.

There has been no slackening of propaganda since the Armistice, said Mr. Bryan. That is why the world has purchased over \$3,000,000,000 in worthless marks. The idea was spread abroad that German defeat had been accepted in a measure of good faith and that consistent effort would be made to pay her reparations and other obligations. And in the face of this belief a few powerful industrial leaders were able to depreciate the mark and leave the people of other countries and the poorer people of Germany holding the bag. Discussing the position of France with respect to the chemical industry of Germany, Mr. Bryan said:

"It is therefore of more than passing moment that today France stands in a position in the Ruhr to put her fingers on the machinery that gives Germany a vast world monopoly of potential organic chemical munitions. These fed the armaments of the past with their deadly explosives, and with their poisonous gases. Disarmament, while these menaces continue to exist, and while Germany has their use undisputed and uncontrolled, becomes a mockery."

He expressed the belief that the Ruhr invasion would mean the liberation of the 60,000,000 German people from the slavery and poverty that the acts of the few industrialists had forced upon them, that they were but putty in the hands of such men. That the plight of the average German is due to the ignorance in which he is kept, declared Mr. Bryan, is borne out by the Berlin correspondent of The London Telegraph, who is quoted as recently writing to his paper as follows:

"As a very important element in the present situation it may be repeated that the bulk of the German public has not the very faintest idea of the Ruhr problem. Thanks mainly to ignorance, and partly to the design of the press, it believes that Germany has herself paid the financial reparations, and has been bled white by doing so."

Before we got into the war, said Mr. Bryan, the Germans were busy in the United States with propaganda trying to make us neutral. After the war there was a change in method, the purpose of which should be well-recognized by intelligent people in this country but unfortunately it has not been, said Mr. Bryan:

"The post-armistice propaganda has a different purpose. The gas attacks that we have been undergoing for the past four years are used for several very pertinent purposes. The principal results have unquestionably been most satisfactory to German interests. Their main purpose has been to wean

American sympathy away from France. In this, they have attained results that must be very satisfactory to them. The one thing that they have perhaps overlooked is that the effect of the present gassing may wear away. I believe that it is wearing away."

"THE EXPONENT OF AMERICA."

MR. WM. M. FLOURNOY, an attorney at law, De Funiak Springs, Fla., in renewing his subscription for two years, writes:

"For many years I have been a subscriber to your great publication the MANUFACTURERS RECORD, which gives to me a weekly delight. Aside from individual subscriptions it ought to be in every High School library in the country.

"Just before you changed the size of the MANUFACTURERS RECORD, I wrote you suggesting the change. Of course, a name should not be changed without consideration and sufficient cause, especially when it is so well known as the MANUFACTURERS RECORD, but it occurs to me that a more appropriate name could be found which would more clearly suggest to the public the wonderful reading matter and statistics which your great paper contains weekly. Except those who have become familiar with it, one would not anticipate that such articles would be in a paper entitled 'MANUFACTURERS RECORD.' I consider your paper one of the South's greatest assets."

The suggestion made by Mr. Flournoy that the name of the MANUFACTURERS RECORD *hardly* represents the whole field which this paper covers, is quite true; but we have lived with, and by, and on that name for the last forty years and we do not see how at this late date the name could be wisely changed.

It is true that there are many thousands of people in this country who would read what is published in the MANUFACTURERS RECORD if it was presented to them under some other name, but believing by reason of the name that this publication is wholly an industrial publication they miss it.

We once considered the feasibility of making that portion of the paper's name "Exponent of America" the dominant name of the paper, with the "MANUFACTURERS RECORD" as a subsidiary name; but that hardly seemed fair to the history of this old publication, and so we have never been able to get the consent of our mind to any radical change. But more and more we would like to emphasize to our readers the thought contained in the sub-title "Exponent of America."

For nearly half a century the editor of this paper has devoted his life to the study of the problems connected with American development—for ten years or thereabouts as a youngster on an old and highly esteemed commercial and financial paper, and then for the last forty years as the editor of the MANUFACTURERS RECORD. With this background of acquaintanceship with the agricultural, industrial and commercial development of the country, our aim has been to discuss broadly, freely and without partisan bias, the great issues which come before the American people. Mistakes may be made, but looking back over the last ten or fifteen years we are profoundly grateful that in that time we have not had to retrace our steps and take a position contrary to any which had been previously presented in our editorial columns. Nothing that is written for this paper is written except in the light of past experience, in the study of the problems confronting the country, without party affiliation, and only with the sincere and honest conviction of what is for the good of our land.

If in carrying forward this campaign the MANUFACTURERS RECORD can be made, as its sub-title indicates, to stand before the entire nation in that way, as "The Exponent of America," the exponent of all that is best and highest in American life, the exponent of the things which make for the development of the nation in righteousness as well as in business, we shall be more than satisfied with that achievement.

HOW RADICALISM IS WORKING UNDER COVER OF SO-CALLED RELIGIOUS ORGANIZATIONS.

A VERY illuminative analysis of the misleading report of the Interchurch World Movement on the steel strike of 1919 is contained in the book by Mr. Marshall Olds.*

This volume is divided into two parts, the first of which is devoted to a thorough analysis of the report; the second to the history of the report. Thus everyone interested is enabled to obtain in comparatively brief form an accurate idea of the motives that prompted the investigation upon which the report was based and also of the 'use that has been made of the document by radicals. Chapter XXV is a summary of Part I and it says that considering "the report itself without reference to any outside facts as to its origin or authorship, it is plain and conclusive that the Interchurch Report as a whole, and in general as to its separate and detailed conclusions is based on evidence that is plainly insufficient." It is shown that the report itself stated that the "rock bottom evidence" consisted of 500 affidavits chiefly from "the mass of low-skilled foreigners." In the introduction to Part II it is stated that "the New York legislative investigation of radicalism states definitely that the inquiry on which the Interchurch report is based was under the direction of certain well-known radicals." The summary of Part II shows the part which radicals took in the investigation and the influence which they exerted upon the preparation of the report itself. Then the Afterword makes this statement: "Beyond all facts as to the merits of the Interchurch Report itself however, or as to its use, is the fact that it is a representative document—a conspicuous typical example of a new type of propaganda which is being more and more widely used and whose motives and methods as well as whose merits should theretofore at least be recognized and understood by the public."

Again it says: "Through its control, thus secured and maintained and directed, of an ever-increasing number of organizations, which profess to represent, and are accepted by the public as representing, some religious or broadly social work, radicalism is today carrying on an 'under cover' propaganda campaign which is as far-reaching as it is generally unsuspected. Thus radicalism is continually presenting to the public as sound basis for public opinion and action all manner of 'social programs' which as a matter of fact are merely clever compositions of sentimental plausibilities and idealistic sounding sophistries designed to confuse the real issues involved and breed distrust of those who are honestly attempting to meet and solve those issues on a workable basis. * * * That the Interchurch Report is typical of this general radical 'under cover' propaganda with which, in all manner of disguises, the country is today being broadcast, is plain from the comparison of arguments, conclusions and even phraseology already made, and from the fact that it was actually prepared by the representatives of the same organizations which are at least ultimately responsible for this general campaign."

These several citations from the pages of Mr. Olds' book are sufficient to outline the general character of the work, which is worthy of perusal by every thoughtful person because of its expose of radical machinations which are speciously and insidiously trying to turn American opinion in their favor.

* Analysis of the Interchurch World Movement Report on the Steel Strike. By Marshall Olds; Foreword by Jeremiah W. Jenks, Ph. D., LL. D. New York and London: G. P. Putnam's Sons. 1922, Pp. 475.

BOYCOTTING AND PICKETING ARE ESSENTIALLY CRIMINAL ACTS.

A WEST VIRGINIA correspondent of the MANUFACTURERS RECORD writes:

"A bill aimed to prevent boycotting and picketing in any form in West Virginia has been introduced in the West Virginia legislature, by Delegate J. F. Strother of McDowell County, upon request. His measure not only prescribes a fine or imprisonment for a violation of the said acts but it also provides that any person, firm or corporation injured or attempted to be injured shall have a recourse to a court of equity for an injunction and such a remedy is to be regarded as cumulative. The Bill (House Bill 256) is entitled 'A Bill to prevent disturbance of a place of business and interference therewith.'

"In brief the measure makes it unlawful for any person in or upon any highway, public street, alley or other public place to make any loud or unusual noise, cry out or proclaim, to display any banner or sign, to display or distribute any badge, placard, circular or handbill or to loiter, picket or patrol in front of or in the vicinity of any place of business or employment for the purpose of inducing or attempting to induce any person to quit employment or not to seek employment or not to enter or perform service in a place of business or for the purpose of inducing any person to refrain from doing business with or purchasing or using the goods or products of one or more manufacturers or merchants.

"This measure is based on a decision of the Supreme Court of West Virginia rendered several years ago, growing out of the attempt to picket a place of business in Huntington.

"The court held at that time that it was unlawful for any person or persons to boycott or picket a place of business with a view to injuring the business of a firm. The bill if enacted into law would also prevent the picketing of mines, without special recourse to an injunction or restraining order, and would also prevent interference by union workers with non-union workers or vice versa."

The proposed bill is not at all too strong. The boycotting and picketing of any business interest in order to prevent other men from working, or to prevent employers from running their plants, is a vicious bit of sabotage which should not be permitted in America. It is un-American in spirit. It is contrary to all righteous teachings of morality. It is about as definite a denial in action of the Golden Rule as it is possible for men to be guilty of.

When men leave employment their connection with it ceases. They have no moral or legal right to undertake to interfere with the operations of a plant which they have quit.

If the Legislature of West Virginia should adopt this bill and put it into effect it would by that very act set an example which might with profit be followed by every state in the Union. Too long has this country put up with the boycott and with picketing. Both of them should be regarded as criminal acts, and those who commit them should be sent to the penitentiary where they belong.

No man has moral or legal right to interfere with another man's business when once he has quit that man's employment. To boycott is the scheme of the Evil One to make turmoil in the world, and no good can ever come out of it. Picketing, however much some may try to excuse it, is an unfair and dishonorable method to injure another man's business. No good excuse for its existence can possibly be given.

Dost thou love life? Then do not squander time, for that is the stuff life is made of.—Franklin.

THE PROPOSED AMENDMENT AGAINST TAX EXEMPT SECURITIES.

IN discussing the question of the influence, if adopted, of the proposed amendment to the Constitution against tax free securities, Baker, Watts & Co., a banking firm of Baltimore, present a view quite different from that of many who have been favoring this amendment on the ground that tax exemption gave an unfair advantage to state and municipal securities as compared with industrial securities, and that if there were no tax exempt securities industrial securities would have a better market at a better price. Discussing this phase of the situation Baker, Watts & Co., who are large handlers of state and municipal securities, as well as of other lines of bonds, write the MANUFACTURERS RECORD as follows:

"There is a growing feeling, as we see it, among economists that the theory of the tax free bond is wrong. On the other hand, the practical observers of the situation see very little to be gained by a change in the Constitution, for the reason that it would mean the municipalities would get a much lower price for their bonds, which would mean also that the industrial and railroad borrowers would have to pay a correspondingly higher price. For example, if Baltimore City obligations were selling on a 5 per cent basis instead of what is practically a 4 per cent basis, many buyers who now buy railroad bonds on a 5 per cent basis would buy Baltimore City stock and the railroad bonds would probably go to a 5½ or 6 per cent basis. As you probably recall, one of the most constant arguments advanced for the repeal of the Constitution provision is that it throws an undue burden on the cost of money for industrial, public utility and railroad corporations. As stated above, it seems to us a change would not benefit this situation because the additional security of the municipal bond at a high return would make the corporation borrowers pay the additional interest in order to secure their funds.

"The problem is extremely complex, and for ourselves, we are quite doubtful whether the States will surrender their rights to the Government to tax the States' obligations. However, this is a matter of opinion and the constant cry of 'tax evasion' may ultimately carry it over."

Senator Fletcher of Florida, an active opponent of the proposed amendment, in a recent address in Congress took the ground that the proposition for passing an amendment against tax exempt securities originated with big banking interests. In reply to an inquiry as to how much profit might come to the people who already hold tax exempt bonds if this amendment should be adopted, Senator Fletcher stated that he thought present holders would profit to the amount of nearly a billion dollars, because the moment no tax exempt securities could be issued those now standing would rapidly increase in value.

Senator Fletcher emphasized the point which this paper has repeatedly made, and which is brought out in the letter from Baker, Watts & Co., that if the amendment should pass, all state and municipal securities issued for public improvements would have to command a higher rate of interest or be sold at a much lower price, and the result would be that every highway constructed, every public building and school erected for the benefit of a community would have a very considerable cost added by reason of the lower price at which these bonds would sell.

Referring especially to what he had seen in Florida, and this is typical of what is taking place over the entire country, Senator Fletcher called attention to the issuing between 1916 and 1921 of about \$2,500,000 of bonds by Polk County of that State. These bonds are all exempt from taxation and were sold at a good price. The proceeds went into the building of hard surface roads. The result of this road construction, and the writer can testify from experience to the correctness of Senator Fletcher's diagnosis, is that from

almost impassable sand roads deterring every one from traveling over them who was not forced to do so, Polk County now has wonderfully good highways which invite the land developer as well as the motorist.

The assessed value of that county in 1914 was \$9,755,000. In 1922, and largely as a result of the influence of these good roads, the assessed value was \$20,516,000. Senator Fletcher estimates that at least 90 per cent of this increase was due to good roads; and when we contrast the conditions throughout Polk county prior to the building of good highways and the present conditions we can readily believe that his estimate is about correct. Today that county is throbbing with progress and activity. Prior to the building of these roads no one ever crossed Polk county if he could by any manner of means avoid it. Impassable roads made it difficult for the farmers and the fruit growers to haul their products to market. Now superb highways thread the county and give opportunity to all who want to travel for pleasure or for business.

The same thing is happening wherever good roads are built. As one motors through Florida, and this is true of other states, he sees that it is but a short time after the opening of a new highway before new land is opened up, drainage is begun, new homes built, new orange and grapefruit groves set out; or, outside of Florida, new land is opened for diversified farming. All of the blessings of this kind of work would be lessened, or the cost greatly increased, if the securities issued for such developments had to be sold at a lower price represented by a much higher rate of interest.

Moreover, the adoption of this amendment would concentrate to a still greater extent in Washington the centralizing power of bureaucratic control which wherever it is left unchecked will destroy any government on earth.

The safety of this country from the governmental standpoint is in the decentralization rather than in the increased centralization of the domination of our affairs.

AN INTERESTING PROHIBITION BILL SUGGESTION.

MR. JAMES M. WILLIAMS, of the Williams, Fulgham Lumber Co., Asheville, N. C., in a letter to the MANUFACTURERS RECORD, says:

"The writer drew the enclosed copy of a bill to deter both the seller and buyer of whiskey from doing business, and at the same time to be able to get one man every time one was found with liquor on him or in him. I hope you will study this with care. Let's improve it if we can and get it passed as a national law. Of course, no man can be made to testify when his testimony would incriminate himself. In this he is exempt if he testifies and condemned if he does not. We must popularize prohibition or fight another fifty year war against the liquor interests. To do this we must hit the fellow who needs it, and teach the effect of alcohol on the human mind and body in all schools as thoroughly as we teach any other branch of learning, and teach the Constitution of the United States the same way. Then have daily Bible study one or two hours; let each denomination teach its own children the latter study."

The bill to which Mr. Williams refers proposes that it shall be unlawful for any person or persons to receive or purchase any malt, vinous or spirituous liquors, or any preparation containing alcohol, unless such person or persons receiving or purchasing the same shall be able to give the correct name and correct post office or other correct address of any person or persons from whom said purchase is made or from whom intoxicating liquors or other preparations containing alcohol used as a beverage are received. Any said person or persons so receiving or purchasing any of the

aforesaid malt, vinous or spirituous liquors, or any other preparation containing alcohol, used as a beverage, may be required to answer under oath in any court of competent jurisdiction giving the correct name and correct street or post office address of any person or persons from whom he purchased or received the same.

"Sec. 2. Any person receiving or purchasing any malt, vinous or spirituous liquors or any other preparation containing alcohol, used as a beverage, who shall fail to give the correct name and correct street address or post office address, together with such physical description of such person or persons as will enable him to be easily identified, of the person or persons from whom he purchased or received the same, shall be guilty of a misdemeanor, and upon conviction shall be fined not less than \$50 and imprisoned not less than thirty days."

The adoption of such a bill as that would make it difficult for the bootlegger to carry on his operations, but we think that under any such bill the fine should be much heavier and the time of imprisonment much longer. Until it is made unpopular by heavy fines and long imprisonment to violate the national laws we shall continue to have trouble with the criminals who sell and the criminals who buy bootleg whiskey.

THE GOOD OF THE WHITE RACE DEMANDS THE BETTERMENT OF THE NEGRO RACE.

The Chamber of Commerce
of Haywood County,
Brownsville, Tenn., March 8.

Editor Manufacturers Record:

Your issue of February 8 carries the splendid article, "The South Must Protect and Safeguard the Negro In Every Way." We have somewhat of a problem in keeping our negroes satisfied. There is, as you know, a great deal of propaganda placed in their hands of a disturbing nature. Such an article as yours, coming from such a source, is very helpful.

I loaned my copy to one of the most intelligent and influential negroes in this section. He has returned it saying "It seems to me that it says everything that should be said." He regretted that he could not get the paper, as he wanted to use the article in his work, so I gave him my copy.

I keep a file of the MANUFACTURERS RECORD as part of my reference library and do not want to break the file. Will you send me a copy letting me know the price and I will end it at once?

E. L. TARRY, Secretary.

The South owes it to itself, to its own people, to the world and to God Himself to work unceasingly for the betterment of the negro race. To the South this great responsibility has, under Divine Providence, been committed.

MAY THE COMING OF THIS GOOD DAY BE HASTENED.

White Bank

T. H. White, President

W. C. White, Cashier

Chester, S. C., March 8.

Editor Manufacturers Record:

In your issue of March 1, on page 87, "A Lay Sermon," you give every business man a suggestion, which if accepted and put into practice would turn this old world upside down with the right side up for the Master.

Religion in business will right all wrongs that have been wrongs so long, and will be wrongs until the Golden Rule "dominates every office and every factory and every farm."

I thank you for the article and am persuaded you are not only pulling for progress and the South, but for the kingdom of God mightily.

T. H. WHITE.

To Forgive the Unrepentant Sinner Would Be to Destroy Individual and National Morality.

By J. C. SELLERS, Jacksonville, Fla.

Lest we forget, while the Germans are whining about the hard lot they have brought on themselves, that during the war they inaugurated, they destroyed more than 700,000 Belgium and French homesteads, obliterated cultivable lands of vast area, destroyed forests and fruit trees innumerable, deported Belgian women and children from their homes to work in German munition factories and in fields, ravaged defenceless females and ruthlessly destroyed billions of dollars' worth of most valuable property, not to mention mines flooded and machinery ruined or removed to Germany which suffered no similar ravishments or losses. Yet, there are those who "pity the poor German," now that reparations, in part, are demanded by France and Belgium.

These facts are not recalled for the purpose of keeping fresh the fires of hate, which should be extinguished and not rekindled, but rather to invite fair-minded consideration of present incidents and conditions, brought about, largely by German shuffling, evasion and downright refusal to regard the terms of the armistice and the treaty of Versailles as more than "mere scraps of paper."

Germany has not for one single instant set about making reparations for the damage that country inflicted on France and Belgium, as did France, following the war of 1870, when Germany imposed what were supposed to be crushing indemnities on the French, refusing any and all guarantees except those of a territorial nature. Then Germany demanded of France cash payments which the French themselves believed they could not pay. But the French people buckled right down to the enormous task imposed on them by the German government and, in one-fifth of the time in which it had been stipulated the payments should be made, France accomplished the seemingly impossible and regained the territory, which, meanwhile, Germany held under military control. French appeals for relief then were vain.

France, in the present instance has yielded, pleaded, with utmost patience has waited for Germany to make good, at least in part, some of the damage done by the war of that country's making and prosecution. The million and a half French lives destroyed in that war, to say nothing of the other millions of French maimed and wounded, Germany never can restore. Is it any wonder that France is insistent in demanding that naturally rich, and saved, Germany shall make reasonable efforts in the matter of reparations, not fixed by France alone but by the allied nations and agreed to by Germany which sued for and secured cessation of hostilities if not for peace?

Attention is called to these facts, not, as has been said, to rekindle hate but to call sober-minded attention to facts that stand as the rocks of Gibraltar, facts that are either forgotten or lightly brushed aside by those who would blame France for what is being done to enforce compliance on the part of Germany with at least some reasonable portion of the treaty of Versailles, and "pity" Germany for being in the position that is self-created.

"Put yourself in the place of the other fellow," your kin murdered, your property destroyed, your demands for reasonable reparation, by the destroyer, who well is able to meet those demands, and the latter does nothing but whine and make show of defiance, though vanquished. Would you "forget and forgive?" Not in a thousand years. And that is France today, in spite of proved willingness to forgive, to a reasonable extent, but not to forget the just debt that Germany owes to the French nation and that Germany promised to pay but has not paid to any appreciable extent.

The Development of the Pulp and Paper Industry and the South's Part in It.

REFORESTATION TO BE AN IMPORTANT FACTOR—BIG ADVANTAGE IN RAPID GROWTH OF SOUTHERN PINE.

[Special Correspondence Manufacturers Record.]

Washington, D. C., March 10.

The future of the Southern states in the paper industry was called forcibly to the attention of the Senate Special Committee on reforestation a few days ago by Dr. Hugh P. Baker, Executive Secretary of the American Paper and Pulp Association, when he appeared before the committee as the senators were planning for their national tour of investigation of the forest situation.

Dr. Baker, who is vice-chairman of the Forestry Committee of the United States Chamber of Commerce, also represented the National Forestry Program Committee before the Senate committee, and discussed the situation of the entire paper industry, with regard to its future pulp wood supply.

Dr. Baker, speaking for the paper and pulp manufacturers, gave it as his opinion that many "lean years" due to the depletion of the raw materials, were ahead of the industry in this country, and that the problem of the forests was now entering the economic stage, so that in the years to come reforestation would be a paying enterprise for the paper and pulp industry.

He spoke particularly of the effect of taxation on the growing forest, showing that the forest crop is in most states so taxed as to make its preservation financially impracticable, and suggested a deferred tax on the timber, placing the tax on the timber when cut, but not during its growing period, as a means of encouraging the preservation of the trees. He commented on the fact that improper tax laws have caused the cutting of as much timber as has been consumed by the entire furniture industry.

Dr Baker then took up the relation of the Southern forests to the paper industry, saying the pulp industry was now at work trying to find a way to use Southern pine in the manufacture of pulp. This problem, he declared, was bound to be solved, and the South was destined to be the home of a great paper industry. The problem, he explained, was to find a way to remove the rosin from the pine timber.

In an interview after the Senate committee hearing, Dr. Baker somewhat amplified his statement as to the relationship of the paper industry to the South. He said:

"At the present time, the paper industry of the United States as a whole is over-built. There is already a greater machine capacity than the national consumption of paper warrants, particularly in view of the tremendous cost of building a paper mill. It has been estimated that including adequate raw material reserves, plant equipment and water power, it requires an initial investment of \$50,000 per ton of rated daily capacity to establish a new mill.

"The nation's production of paper now is in the neighborhood of 7,000,000 tons a year. But even in the boom year of 1920, when the production was nearly a million tons over what would have been normal for that year, the paper mills of the country were only operated to 86 per cent of capacity. The following year they dropped to 58 per cent of capacity, and last year, which was above normal, saw an average operation of 73½ per cent of capacity.

"The tendency of recent years has been toward the increasing development of the industry in Canada, because of the great Canadian forests of slow growing spruce. The use of native woods, so that the United States will not become entirely dependent on foreign forests for its pulp woods is advisable, and to this end the paper industry is doing extensive reforestation in the North.

"In our office in New York, however, we have a section of a Southern pine tree, now used in the making of sulphate pulp, which reached a diameter of over 8 inches in fifteen years. Such a tree in the colder North, of the slower growing species, would take generations to produce. American

ingenuity will one of these days find a way to utilize the Southern pine for the making of sulphite pulp, not now practicable commercially, and thus make the paper industry independent of foreign forests. This may be a long way ahead, however.

"That this trend toward the South is actually under way, however, is shown by the fact that only a month ago I was a guest at a conference of Virginia paper manufacturers at Richmond. A few years ago there were not enough paper mills in the entire South to provide as large an attendance as we had at that conference of a single state."

The Census Bureau, the Forest Service and other fundamental governmental agencies tell in figures the story of the situation of the paper industry as regards its forest resources. A survey of the available supplies of spruce, hemlock and balsam pulp-wood indicates a rather general shortage of this material, with, unfortunately, only too little definite information and facts as to the location and extent of the remaining pulpwood tracts, and the rate of growth on the lands which have already been cut one or more times for pulpwood, lumber or other forest products. The approaching pulpwood scarcity, together with the supplies of cheap labor and fuel in the South, indicate unusual opportunities for the development of the paper industry and the Southern pineries. Foresters who are familiar with the character of tree growth in these regions claim a rotation for the Southern pines, at least for pulpwood size, of from fifteen to twenty-five years. This means that under sustained yield management a tract of Southern timberland would produce pulpwood not less than four times as fast as a tract of equal area in the North.

The chemical problems in the utilization of the Southern pine are rapidly being overcome, so that pine pulpwood will gradually find its way into many other grades than coarse wrapping and kraft papers. This movement for the utilization of the Southern pine in the manufacture of paper is reflected in inquiries relative to the methods of peeling pine pulpwood, and the costs of pine logging operations.

The chief impetus toward the use of Southern species is their rapidity of growth. Spruce must be nearly 80 years old to produce a stick of pulp wood of real value. Specimens of pine such as are used by the paper mill at Bogalusa, La., grow to as great a diameter as ten inches in fifteen years, and an average rotation of from 15 to 25 years is considered commercially practicable, if processes can be developed for the use of this timber in the manufacture of pulp.

Sulphate pulp, and cheaper grades of pulp are already being made from the Southern woods. As yet, no commercial manufacture of sulphite has been possible, but there seems to be no reason to doubt that American ingenuity will eventually find a way of removing the pitch and rosin which is the greatest handicap at present to the making of sulphite from the Southern woods.

Some recent experiments have resulted in the making of a good grade of bleached paper of news print grade from Southern pine. The process, however, is so far too slow to be economical. The test manufacture resulted in this production of about 75 feet per minute, but newsprint where made at a profit on the most modern machines, is made in sheets some 200 inches wide, and at the rate of 1000 feet per minute. This high speed is necessary if the paper is to be made at a profit.

The governmental reports on pulp wood in 1918 showed

twenty-three establishments making pulp in the states of Delaware, Georgia, Louisiana, Maryland, Mississippi, North Carolina, Ohio, South Carolina, Tennessee and Texas. The similar report for 1920 showed such increased numbers of plants that Ohio and North Carolina were reported separately, leaving eleven scattered in the Southern states. This showed no actual increase in the number of plants, owing to some consolidations, but the increased consumption of wood was notable. North Carolina, which before was classified as miscellaneous, reported consumption of 166,582 cords of wood, with 279,955 in other miscellaneous Southern states. This was an increase for these states of about 100,000 cords per year.

These states, however, were only those which had fewer than three plants to the state. Virginia and West Virginia have been heavy producers of pulp and paper. In 1918 Virginia, with 7 mills, consumed 129,637 cords of wood in 1918, and in 1920, with one plant eliminated by a consolidation, the consumption had gone up to 166,547 cords. These are the latest governmental figures, completed late in 1921, by the forest service. The 1918 consumption included 17,541 cords of Southern pine, and 32,771 cords of yellow poplar. Domestic spruce and hemlock comprised the balance. In 1920, however, the yellow pine consumption increased to 29,870 cords, and of poplar to 36,934 cords. Spruce and hemlock consumption totaled about 91,000 cords, as compared with 71,000 in 1918, indicating that the increase was largely in pine and poplar. There was a consumption, however, in 1920 of over 8000 cords of mill waste, when there was no such material used in 1918, indicating a much closer utilization of the forest materials.

West Virginia also showed an increased consumption of yellow pine, but not in such striking figures as was the case for Virginia.

Of the 280,000 cords consumed by eleven Southern mills in 1920, not including North Carolina, Virginia or West Virginia, none was spruce, but 160,199 was Southern pine. Poplar accounted for 32,000 cords, and gum was used to a total of 39,826 cords. Hardwoods and miscellaneous species accounted for nearly 30,000 cords, while the use of mill waste totaled 18,875 cords. Much of this was probably due to the intensive methods in use at the Bogalusa plant, where the paper mill is part of the general organization of the Great Southern Lumber Company.

Southern Educational Exposition at Greenville, S. C.

The Southern Educational Exposition will be held in Textile Hall at Greenville, S. C., June 11 to 16. It will have for one of its main objects the improvement of mill schools. William Banks, supervisor of such schools, has endorsed the plan and will appoint a committee of mill school workers in the state to cooperate with the committee of Greenville men towards developing a large attendance.

There are in South Carolina hundreds of intelligent and ambitious men and women engaged in the teaching of children and young men and women in the mill villages. In the last few years tremendous strides have been noted in the development of these schools. Some are as far advanced in equipment and class room work as any high school in the country.

The presidents of the cotton mills have ably supported the efforts of their community workers and school teachers, with the result that hundreds of thousands of dollars have been spent in building and equipping better schools.

The present prosperity of the cotton mills in the South has led the Textile Hall management to announce the belief that the expenditure in the mill schools alone during 1923 and 1924 will run into the millions.

Slump in Manufacture of Fertilizers in 1921.

A considerable decrease in the activities of the establishments engaged in the manufacture of fertilizers during 1921 in comparison with the year 1919 is reported by the Department of Commerce. The total value of products reported amounted to \$180,374,800 as compared with \$281,143,600 for 1919, and \$153,196,100 for 1914, a decrease of 36 per cent from 1919 to 1921, but an increase of 18 per cent for the seven-year period 1914 to 1921.

Of the 588 establishments reported in 1921, 138 were located in Georgia; 57 in North Carolina; 50 in South Carolina; 47 in Virginia; 44 each in Alabama and Maryland; 28 in Pennsylvania; 22 in Ohio; 19 in New Jersey; 17 in Florida; 14 in Illinois; 12 in California; 11 in Indiana; 10 in Tennessee; 9 in Maine; 8 in Mississippi; 7 in Louisiana; 6 in Delaware; 5 each in Connecticut and Massachusetts; 4 each in Kansas, New York, and Washington; 3 each in Arkansas, Kentucky, Missouri, and Texas; 2 in Nebraska; and 1 each in Colorado, Iowa, Michigan, Minnesota, Montana, Oregon, Vermont, West Virginia, and Wisconsin.

The South Central and South Atlantic States reported approximately 62 per cent of the value of products in 1921; 73 per cent in 1919; and 70 per cent in 1914; the North Central, Middle Atlantic, and New England States, 35 per cent in 1921; 25 per cent in 1919; and 28 per cent in 1914; and the Mountain and Pacific States, 2.5, 1.5, and 1.6 per cent, respectively.

The statistics for 1921, 1919, and 1914 are summarized in the following statement. The figures for 1921 are preliminary and subject to such change and correction as may be necessary from a further examination of the original reports.

	1921*	1919*	1914
Number of establishments..	588	584	734
Persons engaged	21,438	32,522	28,301
Proprietors and firm members	164	219	373
Salaried employees	4,376	6,007	5,113
Wage earners (average number)	16,898	26,296	22,815
Salaries and wages	\$25,845,500	\$36,934,700	\$17,774,400
Salaries	9,819,800	11,571,600	7,242,400
Wages	16,025,700	25,363,100	10,532,000
Paid for contract work...	59,300	171,300	192,900
Cost of materials	144,978,300	185,040,500	107,954,600
Value of products	180,374,800	281,143,600	153,196,100
Value added by manufacture	35,396,500	96,103,100	45,241,500

* Statistics for establishments with products valued at less than \$5000 are not included in the figures for 1921. There were 18 establishments of this class which reported 20 wage earners and products valued at \$54,000. For 1919, however, data for 16 such establishments, reporting 18 wage earners and products valued at \$47,880; and for 1914, data for 50 establishments, 73 wage earners, and products to the value of \$140,000 are included in the figures with the exception of the item "number of establishments."

\$2,000,000 Irrigation Project to Embrace 40,000 Acres.

San Saba, Tex.—An election has been called by the commissioner's court of San Saba County on the proposition of creating an irrigation district to embrace 40,000 acres of land in the valley of the San Saba River. It is planned to build a dam 16 miles west of here, the proposed structure to be 100 feet high and 1300 feet long. The structure will form a storage reservoir of 140,000-acre feet capacity. The entire project will cost approximately \$2,000,000, it is estimated by engineers.

Will Make Paper from Cotton Linters.

Commerce, Tex.—The Trinity Paper Mills Corporation will soon furnish the construction of its paper mill here. Original plans were to build a plant for the manufacture of paper pulp from cotton linters, but it was later decided to enlarge the mill to convert the pulp into the finished product. The finer grades of book and writing paper will be manufactured. With the development of the new industry it is expected that the demand for cotton linters will be greatly increased.

A Sane Program for the Cotton Farmer in 1923.

By ANDREW M. SOULE, President Georgia State College of Agriculture.

A great deal of confusion has arisen in the public mind relative to our policy with reference to a cotton cultivation program for the ensuing year. Some wish to see cotton production minimized more than it has been in the past. They believe that if this plan of action is carried into effect that the price will remain high and that more money is to be made from a short crop than from a large one. Some wish to see the cultivation of cotton more strongly emphasized than ever. They base their views on the alarming shortage of spinnable fibers which is said to exist at the present time. They also cite the fact that unless more cotton is grown, there will be none left for export thereby paralyzing the spinning industry in foreign countries and lessening the ability of their people to purchase the exportable surplus of our farm crops and animal products which they have been taking from us in the past. It would also affect our present favorable trade balance very disastrously.

Some believe that if we do not make a relatively good-sized crop of cotton, that we will encourage its cultivation at our expense in other sections of the world and that this would ultimately be a misfortune to both the American farmer and manufacturer. Those who are encouraging minimizing our cotton crop point to the boll weevil invasion as a beneficent act of a kindly Providence. Those who wish to grow a larger area of cotton say we already have remedies which will enable us to virtually control the depredations of the boll weevil, and, therefore, we can continue to grow the crop with comparative impunity. It is certain that all sorts of remedies have been suggested for the control of this pest, but undoubtedly many of them are unworkable, and cotton cultivation under boll weevil conditions is therefore still fraught with many grave dangers.

In view of the foregoing, it is not surprising that the planter is more or less confused and uncertain as to the procedure which he must institute and follow during the present crop year. The situation is such that it needs clarification. Whether this can be accomplished is a debatable question. Consistent effort looking to that end is certainly not inappropriate at this time.

After a careful study of the situation, it seems to me that in our own state at least it would be a wise plan to institute a program of diversification and make cotton the servant and not the master of our destiny. Can we accomplish this with advantage and profit? I believe we surely can. It appears from figures which have been gathered from reliable sources, for instance, that the average adult family of five living in the states of North Carolina, Georgia and Texas consume $13\frac{1}{2}$ bushels of vegetables per adult including both sweet and Irish potatoes, $3\frac{1}{2}$ bushels of fruit, 156 pounds of corn meal, 224 pounds of flour, 8 gallons of syrup, $57\frac{1}{2}$ pounds of poultry, $45\frac{1}{2}$ pounds of butter, 99 gallons of buttermilk, 17 gallons of sweet milk, 12 pounds of beef, 138 pounds of pork and lard and 28 $\frac{1}{2}$ dozens of eggs. There is certainly no reason why these foodstuffs should not be grown in the amount and variety indicated with complete success and a reasonable profit on the average Southern farm. In order to carry out this plan, the following areas would need to be seeded to the crops indicated below: Corn with cowpeas $13\frac{1}{2}$ acres; winter oats 4 acres; wheat 4 acres; cowpeas for hay 8 acres; (they would of course follow the oats and wheat) permanent pasture 8 acres; sweet potatoes $\frac{1}{2}$ acre; Irish potatoes $\frac{1}{2}$ acre; vegetables $\frac{3}{8}$ acre; fruit $\frac{1}{2}$ acre.

These figures are made up on the basis of average yield.

Where crops above normal are raised, the area of land cultivated may be reduced, or the surplus available disposed of in one of several ways to advantage. It appears from these figures that 24 acres of land are required to grow the necessary food and feed crops for a two-mule farm. This program should not only provide for the family of five adults, but for two work-mules, two cows, two brood sows and a minimum of twenty-five to fifty chickens. Anyone acquainted with our soil and climatic conditions and the response our soils make under good management realizes full-well that this plan can be carried out with success. If this were done, the Southern farmer would become self-sustaining and financially independent and would not need to look to any other section of the country for supplies of foodstuffs for his family or his work-stock as at present.

There would be some surplus of food and animal products from a farm of this character that would help to sustain the family and purchase such necessary food and other supplies as cannot be raised successfully on the farm. If on top of this arrangement we impose the cultivation of six to ten acres of cotton to the plow, we have not over-burdened the capacity of the two-horse farm and we have made of cotton a strictly surplus money crop. Then, even if boll weevil depredations should prove very severe, the farmer and his family can still live comfortably. If he succeeds in the control of this pest, as I believe he can to a large degree under wise management, then he may be classed as a highly successful and independent citizen.

If a program of the character I have suggested is carried into effect on the average Georgia farm, there is no reason why we should not harvest a considerably larger crop of cotton than we raised in 1922. We will then be doing our full share on a safe and sane basis toward supplying the needs of our local markets and the world at large with essential spinnable fibers. We will be proceeding on a basis that properly protects our own interests at every turn in the road.

It is my belief that we should not increase the cotton acreage in my own state above what it was last year. Let us keep it at 4,129,000 acres. I will not quarrel with anyone who may wish to cut it below this figure. On the other hand, we must raise more cotton per acre. **Even with cotton at thirty cents a pound and an average of one hundred pounds of lint cotton per acre as was true in Georgia in 1922, no margin of profit remains to the cotton farmer.** On the other hand, if we had raised an average of one hundred and fifty pounds of lint cotton per acre at thirty cents a pound, there would be a fair margin of profit accruing to the credit of the landowner. If we made an average yield of two hundred pounds of lint cotton per acre, which I think extremely doubtful under boll weevil conditions, we would still not be surfeiting the world with the staple, and even at thirty cents a pound, a planter making the yields suggested would not be making an excessive profit on his labor and investment. Of course, under normal conditions, it would be quite easy to raise two hundred pounds of lint per acre on the average farm in Georgia as our crop in the decade 1910-20 averaged 191 pounds of lint cotton per acre.

What must we do in order to carry out such a policy as has been outlined especially with reference to raising a satisfactory crop of cotton? First of all, we must select and use only well-drained, fertile soils. Plant an abundance of seed of standard varieties that are known to mature early. This is a very important point to emphasize. The crop must be liberally fed through the use of adequate supplies of nitrogen

and mineral elements as well. Through fertilization we can hope to materially hasten the maturity of the crop, which is a great desideratum in the cultivation of cotton under boll weevil conditions. Intensive, frequent, shallow cultivation is a matter of the utmost importance to bear in mind. In chopping the cotton, leave it considerably closer than was formerly thought desirable. Of course the cotton stalks should be destroyed early in the fall before the weevil goes into winter quarters. The more successfully we do this, the more completely we kill out the crop of weevils which go into hibernation. This is like taking out insurance in advance against crop losses the following year.

As to the method of control which may be followed with the greatest measure of success, it is important to remember that even though an ample supply of calcium arsenate were available at a reasonable cost, probably not more than ten per cent of the cotton area in the South can be poisoned. Therefore, if we are to grow an adequate crop of cotton in 1923, we must face the problem of making the major part of it without poison of any character. This is a very important matter to bear in mind. When poisoning is not practicable, therefore, and labor is inexpensive and relatively abundant, the picking-up and destruction of punctured and infested squares for a period of thirty days will prove highly beneficial. Do not overlook the importance of this simple but fundamental practice. It will bring salvation to many a farmer who may otherwise lose his entire cotton crop.

The question of the control of the boll weevil through the use of poisons has resulted in there being placed on the market many formulas and devices. Naturally, great claims are made for all of these. Undoubtedly, some of them have more or less merit. Just how much, time will prove. In the meantime, what plan of procedure relative to this matter should be advocated? I know of nothing better than direct attention to the conclusions reached by the Southern Agricultural Workers at their recent meeting in Memphis, Tenn. These represent the findings and the advice of the various state and federal officials who have given the best of their lives and their entire time and attention to the solution of this, the most vexing of our economic problems as they pertain to agriculture. It would appear that these conclusions should be as accurate as any data or information which can be made available on this subject up to the present time.

1. Of the various methods of control involving the use of poison, your committee recommends the calcium arsenate dusting method and the Florida method. There are no other methods having as yet the sanction of adequate, scientific proof. The limitations of the calcium arsenate dusting method lie in the fact that it has been found profitable only on land capable of producing one-third to one-half bale per acre or more, that it requires a maximum of calcium arsenate, and that it must be applied at night and by the use of machinery. Aside from these limitations, its worth, through several years and under varying conditions, has been fully and conclusively demonstrated not only by the experiment station, but by practical farmers throughout the cotton belt.

The Florida method has been found adapted to the conditions in that state and has the virtue of being adapted to lands of low productivity. This method can undoubtedly be applied with success in adjacent sections where the seasonal conditions are the same as those in Florida. Whether this method will succeed elsewhere has not been determined and cannot be until further studies of weevil hibernation and related factors are made. It is urged that the experiment stations in the cotton growing states as speedily as possible determine the adaptability of this method to their respective states.

2. Your committee is without scientific proof that would enable it to give a definite opinion as to the effectiveness of the molasses arsenate treatment. However, prominent and progressive farmers in South Carolina and other states claim for it a very decisive measure of control, and experiments at the Government Laboratory at Tallulah, La., indicate a certain measure of control in the early stages of the infestation when the cotton plants are small. Your committee, therefore, believes that this method deserves and should receive a

thorough and immediate test by the experiment stations and the Government.

3. Your committee would remind the public that the solution of any great scientific problem such as boll weevil control is likely to be the work of many scientists extending over a period of years and at an expenditure of considerable money. Prompt and adequate support of experiment station projects along this line by the legislatures of the cotton states is an essential element in the early solution of this, the most important problem confronting the cotton growers of the South. In time of emergency such as the present, numerous panaceas will be proposed. It is a safe assumption that most of these will prove worthless to the farmer, however profitable to the promoters. Care and economy should be exercised in their purchase and use.

As the responsible agencies for scientific research in the states, the Agricultural Colleges can recommend to the people only such methods as have been fully established by adequate and dependable scientific data. Until such proof shall be available, new or untried methods and devices should be used with caution and with a view of testing their efficiency rather than depending upon them for successful control.

Decline in Value of Plow Lands.

A drop of 26 per cent in the value of plow lands during the past three years is shown in a statistical survey made by the Agricultural Department. Plow lands in the United States had an average value of \$66.53 per acre March 1, 1923 as compared with \$69.89 on March 1, 1922, with \$83.78 March 1, 1921, and with \$90.01 March 1, 1920.

By states, Iowa shows the largest drop over the three-year period, registering a decrease of \$66 an acre. Illinois is next with a drop of \$44 an acre; Indiana third with a drop of \$37; South Dakota fourth with a drop of \$32 an acre, and Nebraska, Utah and Idaho next, each showing a drop of \$29 an acre. The smallest decrease, \$2 an acre over the three-year period, is shown in Massachusetts and New Hampshire. Connecticut shows a drop of \$3; Alabama \$4, New York and Florida \$5; Virginia and West Virginia \$6. An increase of \$3 per acre is shown in New Jersey, and of \$2 in Rhode Island.

From 1922 to 1923 gains in plow land prices have occurred in early truck crop states north of South Carolina and generally in the cotton states. Continued depreciation is shown in states in the corn and wheat belts and in the mountain and Pacific regions. Prices were above \$100 per acre on March 1, 1923 in only three states, \$153 in Iowa, \$126 in Illinois, and \$113 in California. Low prices were \$22 in Montana, and \$26 in Georgia, Alabama, and Mississippi.

New Study of Boll Weevil at Tallulah, La.

A new elaborate statistical study of the influence of various factors in the control of the cotton boll weevil, is to be made by the Agricultural Department. Mobilization of the department's full force of statisticians and entomologists is taking place, statisticians from the Bureau of Agricultural Economics having already gone to the Tallulah, La., station of the Bureau of Entomology to confer with entomologists there.

The next move will be an analysis of the thousands of records and observations at the Tallulah station made by entomologists covering the entire cotton belt over a number of years. Statistical methods of examining the comparative effect of various control methods will then be worked out. A widespread inquiry will also be made next fall through the crop reporters of the Bureau of Agricultural Economics as to the relation of various methods of control employed this year to the yield of cotton obtained. It is expected, says the Department, that these studies will develop important data that will permit the planning of a really effective offensive against the cotton pest.

STEEL CORPORATION'S BIG BUSINESS.

Orders Already Received for 1923 Up to Maximum Capacity of Subsidiaries.

Judge Elbert H. Gary, chairman of the United States Steel Corporation, says in the annual report of the corporation just issued that up to writing of the report, which covers the year 1922, new business booked so far this year (1923) has been greater than the rated maximum capacity of the subsidiary companies and also that there has been some improvement in the selling prices. As to the general condition of the industry Judge Gary says:

"The steel industry in the United States in the year 1922 showed a substantial recovery from the unusually low volume of 1921, both in respect of new business offered and production output. The aggregate tonnage of orders booked by the subsidiary companies of the Corporation during the year was slightly over 90 per cent of their estimated maximum annual capacity. But the greater part of this tonnage was entered during the second six months of the year, when, owing to the extended strike at the coal mines and of the railroad shopmen, operations were conducted under difficulties. As a result the output of the steel-making subsidiary companies for the entire year averaged only 71.3 per cent of their capacity, exceeding materially, however, the output in 1921, in which year the average was 47.5 per cent of capacity. During the first quarter of 1922 the output was but 37 per cent of capacity. The interruptions in operation caused by the strikes mentioned, as well as the increased cost of coal, together with an increase of about 20 per cent in wage rates effective on September 1, resulted in increasing costs of operation to an extent which was not balanced by the slight advances which took place in selling prices during the year. Consequently the earnings for the year as shown by this report were relatively small for the volume of operations conducted and were not commensurate with the investment employed. At the close of 1922 the tonnage of unfilled orders of the subsidiary companies for the various classes of steel products was 6,745,703 tons in comparison with 4,268,414 tons at the close of the preceding year. Up to the date of writing this report the new business booked in 1923 has exceeded the rated maximum capacity of the subsidiary companies. There has also been some improvement in the selling prices secured."

The volume of business of the corporation has again exceeded the billion mark, but not to the degree that it did in 1919 and 1920 by several hundred millions, the combined gross sales and earnings for 1922 being \$1,092,697,772, an increase of \$105,948,053 as compared with 1921.

The income account shows that the total earnings for the year, after deducting all expenses incident to operations, including ordinary repairs and maintenance and taxes, were \$109,788,916 and that after there had been deducted from the latter interest on bonds and mortgages, charges and allowances for depletion and depreciation, and premium on bonds redeemed, there was left a balance of \$39,653,455, out of which, combined with a balance of \$10,981,346 from undivided surplus, the dividends were paid. The total undivided surplus December 31, 1922, was in excess of \$499,000,000.

The output of steel ingots for the year was more than 16,082,000 tons, an increase of over 5,100,000 tons as compared with 1921.

Plans Progressing for New Battery Park Hotel.

Asheville, N. C.—Details for the erection of the new \$600,000 Battery Park Hotel here, which will be built by Dr. E. W. Grove, are being worked out, and plans and specifications will be ready in about 30 days. This structure is designed to

take the place of the present Battery Park Hotel. W. L. Stoddart of New York is the architect.

The building will be 10 stories, 90 by 100 feet and will contain 200 rooms with baths.

Gaston County's Claims to Third Place in Cotton Spinning.

Gastonia, N. C., March 15.—[Special.]—Gaston county has passed from fourth to third rank in America in cotton spinning.

This fact was announced this week as the result of an exhaustive and authoritative survey of the textile industry of the county made by the Gastonia Chamber of Commerce. This proves the county to have in operation and under contract 1,130,675 producing spindles, thus wresting third place from Middlesex county, Massachusetts, with its 1,090,872 cotton spindles. According to figures taken from a leading textile directory, Bristol county, Massachusetts, leads with 6,799,722 spindles and Providence county, (Rhode Island) comes second with 1,286,397.

The fact is also established that with its ninety-eight mills in operation, Gaston has more cotton spinning mills than any other county in the world outside of Great Britain, Bristol county coming next with ninety, even. Over one hundred had been conceded to Gaston but in order to hold absolutely to a solid foundation the Chamber of Commerce in making the survey eliminated corporations formed which have not contracted for their buildings.

There is a total of 3596 looms in the county and the tendency of future development is toward more finishing mills. These weaving mills range in product from broad sheeting to table damask, tire fabric, fine ginghams and outing flannels and fancy dress goods.

One processing and mercerizing plant is being successfully operated.

The mills employ 16,183 operatives, with an annual payroll of \$8,542,866. Ten mills are now under contract and the most of which are well along toward completion. The mills maintain in their villages 5282 houses for their operatives.

Annual sales for 1922, with the textile industry making but small profits, grossed \$57,440,246.27.

Mills in operation during 1922 consumed altogether 212,500 bales of cotton, the greater proportion of it long staple as the mills, especially of Gastonia and Belmont, specialize on fine combed yarns.

The survey is the first absolutely complete one made of the textile industry of Gaston County and as conservative figures were asked at every turn, the totals will be accepted as official and will be used in publicity work during the coming year.

Washington Gas Light Company to Issue \$4,000,000 of Bonds—Anticipates Plant Extensions.

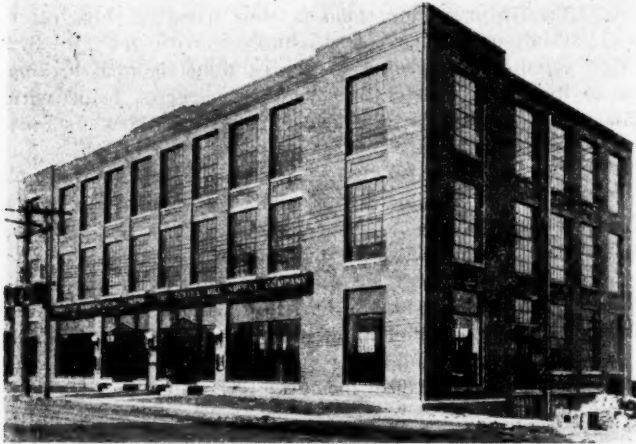
Washington—The Washington Gas Light Company will soon issue about \$4,000,000 of 10-year 6 per cent debenture bonds, part of which will be used to retire \$2,000,000 of 7½ per cent notes outstanding; and proceeds from the remainder to be used for reimbursing the company for extensions and improvements already made. Stockholders of the company recently authorized the issuance of these debenture bonds up to \$15,000,000.

It is estimated that in the next ten years the growth of the District of Columbia will necessitate the annual expenditure of \$1,000,000 by the company, and anticipating this situation, preparations are being made for extensive plant expansions. Details are being worked out in connection with the proposed bond issue, and after these arrangements are completed, application will be made to the public utilities commission for authority to issue the bonds.

Card Clothing Produced in Charlotte Plant—Southern Industry in Competition With Manufacturers in England and New England.

Charlotte, N. C.—The Charlotte Manufacturing Company, which is the only card clothing manufacturing concern in the South, and the Textile Mill Supply Company, of this city, have just completed one of the most modern buildings of its kind in this section. The two companies are operated by the same individuals.

The home of the Charlotte Manufacturing Company is of particular interest because this is a concern which has gone into competition with manufacturers in England and in New



NEW BUILDING OF CHARLOTTE MANUFACTURING CO.

England and has made good in a large way. Since its establishment the business has been enlarged eight different times.

Discussing the inauguration of the firm's business and the manner in which it extended its activities, an official of the Textile Mill Supply Company says:

"The new firm started under great difficulties. Southern-made reeds even at that time were no novelty, but when it came to Southern-made card clothing—this was a different matter. Sporadic attempts at making card clothing in the South had not proven satisfactory. Southern mills as well as Northern mills were convinced that card clothing could not be made properly outside of England or New England.

"The members of the new firm were satisfied that as good card clothing could be made in Charlotte, N. C., as in England or New England. It was right and proper that they should believe this, but not worth anything unless they could convince mill owners that this was the case.

"Obstacles and arguments to overcome were many and various. Objections by men who were asked to buy the goods were numerous. 'You are an experiment. We cannot afford to experiment with a thing that means as much as this.' 'You cannot get men experienced in work like this to come to small towns to live.' 'You say if the goods are not right, we will get our money back, but what about the loss in production when we are taking off defective card clothing? What about bad work that may go through and mean loss of reputation for the mill's product, aside from any financial loss?'

"And then our friends came to the front. The man who wrote 'Money can buy anything' was either a fool or a liar, maybe both. Money cannot buy friendship.

"These friends decided to take a chance, not because they were banking so much on our goods, but because they had faith in us. Whether we have justified that faith or not, we do not know. They seem satisfied, but we are not. We are keeping on plugging, working, striving all the time to make our goods better.

"During the war we could not buy machines for making card clothing either in this country or in England. The mills were running under forced draft and had to have card clothing to keep on running. We had built in Charlotte 20 card clothing machines, strong, sturdy loyal machines, not so fast, perhaps, as some of the others, but just as reliable.

'Not much,' you say, '20 machines.' No but just enough to show what could be done right here in Charlotte."

The Textile Mill Supply Company bought the Southern Card Clothing & Reed Company of Charlotte in 1910 and in 1911 the concern was incorporated under the name of the Charlotte Manufacturing Company with the following officers: F. B. Ferris, President; P. L. McMahon, Vice-president; Fred W. Glover, Secretary-Treasurer.

Developments in Rio Grande Border Oil Fields.

Mirando City, Tex.—At the present rate of development it is expected that oil shipments from Mirando City will reach more than one thousand cars a month within the next ninety days. During February 604 cars were shipped from here, an increase of 68 cars over the preceding month. Extensive drilling operations are in progress in the Mirando and adjacent fields and all through the territory reaching the Rio Grande, about fifty miles south. Deep test wells are being drilled in the shallow oil fields near Cuevitas, about 35 miles south of here. In the less than 14 months that drilling operations for oil have been in progress in the Rio Grande border fields, statistics compiled up to March 1 showed a total of 119 producing oil wells in these fields, and 17 gassers, exclusive of the Reiser gas field gassers, which were brought in more than 20 years ago. There was a total of 72 producing oil wells, making from 50 to 1500 barrels of oil per day, in the Mirando City-Schott field.

In the Aviators field there were 15 producing oil wells and two gassers, the oil wells making an average of 100 barrels of oil per day and the gassers ranging from 1,000,000 to 5,000,000 cubic feet of gas per day.

In the new Mid-Ojuelos field, midway between Mirando City-Schott and Aviators field, there were six producing oil wells, making from 75 to 150 barrels of oil per day, and one gasser making 1,000,000 cubic feet of gas per day.

In the new Leaseholders field on the Gates-Kirkpatrick ranch there are two producing oil wells, each making about 100 barrels of oil per day, these wells finding production at from 1050 to 1060 feet, and being the shallowest oil wells of the entire district.

In the Mirando City-Schott field there were seven wells with casing set, 12 wells drilling at various depths, and locations made for about 20 new wells. In the Aviators field at the same time there was one well cemented, four drilling and five locations made. In the Mid-Ojuelos field there were three wells setting casing or cemented, four drilling and three locations made and derricks being erected. In the Leaseholders field there was one well cemented, three drilling and four locations made. In the Carolina-Texas field there were two wells cemented, two drilling and one location made and derrick being erected.

Northern Capital Stimulates Building at Winter Park.

Dr. R. F. Hotard, president of the Business Men's Club Winter Park, Fla., writes the MANUFACTURERS RECORD:

"The growth of Winter Park is reflected in real-estate turnovers. Recent sales of business property total over \$100,000, while the combined sales of residential and business property in the past thirty days show a total of over \$250,000, with many sales in prospect. Most of these sales were made to northern capitalists, who are becoming interested in central Florida.

"Three new business blocks have recently been completed, with three more under construction and others contemplated. One of these will provide six store rooms on East Park Ave., with a commercial hotel on the upper floor. It will be erected at a cost of approximately \$50,000.

"Nine residences are in course of construction, seven have recently been completed, with many more in prospect. Many of these belong to retired Northerners who spend the winter months at Winter Park."

Interesting Items of News From a Well Known Expert

By KIRBY THOMAS, Consulting Engineer, New York.

Number 3.

Stock Raising in Venezuela and Colombia.

The enormous and successful development of the American packing industry and its influence on the character and supply of essential food products, at home and throughout the world, is a recognized commercial fact. Within recent years several of the large American companies engaged in this business, have undertaken to establish packing plants, following the American methods of organization and operation, in Argentina, Uruguay, and Brazil. These operations have been successful and promise to become of increasing importance as a supplemental source of supply to our own food needs and the world's requirements.

There has been no large undertaking of this kind in the northern countries of South America. In Venezuela, the vast pampas area offers favorable conditions for an enormous development of this character. Efforts are being made to establish stock raising and packing industries in both Venezuela and Colombia. The essential preliminary is the introduction and the acclimatization of suitable breeds of live stock to replace the inferior native breeds. This will take some years and can only be done with the support and cooperation of local interests and local authorities.

The conditions in general are especially ready for the development of important stock raising business in some of the Caribbean countries and the opportunity is offered for the establishment and development of this modern "big business," in control of Americans, and necessarily financed, at the beginning, by American capital.

* * *

Selling Color in Building Operations.

The modern building methods, using concrete, stucco and special roofing material, have created a new demand in the mineral field. Formerly, it was practicable with respect to most houses and structures, to secure the desired color effects by the use of paint or by the selection of colored building stone, brick, tile or terra cotta. Stucco walls and composition roofing, now so generally used, are dull and unpleasant to behold, even though sometimes tinted or colored with dyes mixed with the original material, or coated with variegated calcimine.

The architects have ingeniously risen to the occasion and have devised a method of injecting into the surface of the stucco and the roofing suitable permanent colored gravel, or "aggregate," to use the trade name. In this way, not only are the desired color effects secured and the walls and roofs beautified, but a surface finishing is provided, which is most enduring. Slate "aggregate" is often used and there are several companies in the eastern states which make a special business of grinding slate and sorting it to the desired uniform size. One company produces an exclusive "permanent green," slate "aggregate," much desired for some roofing purposes. Another company makes a specialty of a purple-blue slate product. A plant in northern New York by careful selecting is able to offer a pink and a green feldspar "aggregate," which commands very fine prices, because of the special color.

In Virginia, there is a company engaged in making "aggregate" out of a glassy apple green rock, known to the mineralogists as epidote. This finds a very wide market on account of the peculiar color and color effect.

A slag pile, long accumulated at one of the old iron furnaces in Connecticut, provides in small amounts, by careful sorting, a green and blue slag glass, which used as a facing certainly gives very showy results. Several plants are engaged in

grinding the waste mica product to produce silvery white flakes, which are suitable for some roofing requirements, and which, when applied to bare stucco walls, makes a very Christmasy effect. All of these materials are of good use for the special purposes to which they are applied. The value of any particular material is however chiefly in its color.

In consequence of this demand for color—under the conditions of present day building—there has sprung up in various localities where suitable materials are found a considerable number of new industries of secondary importance individually, but taken together, presenting a large investment in practically a new field of mineral exploitation.

* * *

Sources and Uses of Feldspar.

The resumption of activities in the American plants engaged in the production of clay products in the form of pottery, crockery, sanitary enamel ware and surfaced tile for building, has led to increased demand for feldspar, which is used as a flux in the glaze. This increased demand is being supplied in large part from Ontario, where a number of old mines have been reopened and new ones developed recently. The Canadian product, which in its crude form is imported without duty, is in competition with the domestic supply, which now comes largely from the southern Appalachian region. The chief consuming centers for the product are in the Ohio valley district, and therefore the imported feldspar has about an even break as to freight rates with the domestic product. Many of the Canadian properties are American owned and operated.

There is increased activity in the demand and development for feldspar properties in the South, particularly in the Carolina region accessible to cheap railroad transport to northern points. A part of the supply for eastern plants comes from New York state and Maine. The quoted prices of crude feldspar range from \$8 to \$18 per gross ton at points of production f. o. b., depending upon the grade and quality, particularly the potash content of the product.

Most of the Canadian product is imported crude, but the domestic production is quite largely ground at the mines and brings a correspondingly higher price.

The attempts to utilize feldspar as a source of potash which were made during the war when potash was at a high price, owing to the exclusion of the German supply, have quite generally been abandoned, having been a failure from a commercial standpoint. This has left the chief market for feldspar as before the war in the field of accessories to the varied clay operations, and as flux. Some feldspar is used in glass making. There are no imports of this material regularly from other countries than Canada.

* * *

New Classification of Customs Statistics and Need of Improved Records.

The Bureau of Foreign and Domestic Commerce at Washington has revised and elaborated the schedule of articles and commodities imported and exported, increasing the total items from 700 to 984. This is in recognition of the greater complexity of the country's foreign affairs and to remedy in part certain obvious confusions and conflicts in the old schedule used for the monthly, quarterly and yearly bulletins of this governmental department.

This improvement will be welcomed, but it is hardly to be expected that the changes, carefully made though they may be, can supply adequately, the real data required by the American business interests. The fact is that these publica-

tions, primarily conducted as a fiscal record for the Government, have been of increasing value to American exporters and importers, not because of their completeness, reliability or lucidity, but because they were the only timely record of the international movements of trade available and as such they were increasingly consulted and studied.

The present publications are not only deficient as to the number of classifications, but many of the classifications are conflicting. The geographical distribution of the imports is not kept up to date, nor intelligently varied as conditions changed from time to time. The values given, supposed to represent for customs tax purposes, the value of the imports at port of shipment, are obviously incorrect or misleading in many of the items published. This can be remedied for statistical and checking purposes if the grade or character of the respective commodities is included in the published records together with the quantity units. This is particularly true of ores, alloys and such products, which cannot be valued solely on units of weight or measure.

At the last session of Congress, the Secretary of Commerce asked for \$400,000 for compiling foreign trade statistics, but no appropriation was made. This estimate is approximately double the present cost of the trade statistical bureaus which it is proposed to unite, but the additional amount is required to take care of extensions of import and export classifications, to introduce more efficient methods for compiling and publishing reports, to compile statistics of exports by states of origin, to furnish special statistical statements to interested parties in more detailed form than is customary in the monthly summary, and otherwise to improve the foreign trade statistical records for the benefit of the Government, and for the use of business and commercial organizations interested in foreign trade.

The consummation of this plan can be furthered and assured if the business interests of the country will intelligently present their ideas and needs to the proper Congressional Committees when the time comes, and constructively criticize the scope and system of the Government's commercial statistics to the proper departments.

* * *

Artificial Rock for Roads.

The practically prohibitive freight cost on rock for roads for some parts of the states of the Central West and of the Gulf Coast region has led to a revival of the plan once used in a limited way, of making artificial rock by burning local clays to proper hardness and crushing this material for road surfacing. This plan, while more or less of an expedient, is practicable in some instances and is likely to be resorted to at least to complete pending contracts, or until cement or asphalt can be made available at a lower cost. The usual plan is to bake hard local clays in large blocks and to crush these as stone is crushed, to the necessary sizes.

Mexican Mining Conditions Greatly Improved.

Torreón, Mexico—Increase of mining activities in all of the producing districts tributary to Torreón is reflected in the movement of ores to the smelters and the improvement of the unemployment situation. It is stated that comparatively few laborers are now out of work in the State of Durango. In all of the older mining camps more mining development is now going on than for a long time. Conditions have changed materially for the better during the last few weeks, according to mine owners. Many Americans who left Mexico during the revolutionary troubles have returned and are either acquiring titles to new claims or are resuming work on properties which they already owned. Much new mining equipment and machinery for ore reduction mills are being imported from the United States.

Varied Activities in a Busy Florida Community.

Dade City Chamber of Commerce,

Dade City, Fla.

Editor Manufacturers Record:

At Lacoochee, seven miles north of here, the Cummer Cypress Company are erecting one of the largest mills in the state. The planer and drying sheds will cover four acres, all under one roof. In addition the company will have crate and veneer mills and will make this point one of the largest wood working places in the state. Several hundred houses and other structures necessary to house employees and carry on the work are being built. The mill is expected to begin operations by August.

Here in Dade City is a small veneer mill, which has the only lathe in Florida with which scale board, used in packing cheese, can be cut. In addition to this, crate material of all kinds is made and there are woods from which the best furniture veneers can be produced.

In the building line two brick business blocks are in process of construction. One will contain two good sized storerooms, one of which will be occupied by one of the leading dry goods stores. The other will contain the plant of the Dade City Bottling Works, the only plant of its kind in the county, besides two storerooms, which have not yet been rented.

The financing of a brick yard to be operated just west of Dade City has been almost completed. Experimental brick made have shown that we can make a very superior article of this kind, that will burn harder than most Florida brick and is the only red brick in the state.

There is not a single desirable vacant dwelling house in Dade City and the demand is so great that as soon as it is known that one will be started a tenant immediately applies for it.

At Zephyrhills, ten miles south of here, a two story brick building, which will contain a drug store and the lodge rooms of the local Masonic lodge is being built.

One business block here is being remodeled. In place of one large storeroom, with the upper floor used for storage it will be made into three stores of good size. The upper floor is being converted into office suites and all of them have been rented.

At the South Florida Fair recently our county exhibit for the third consecutive time won the grand prizes for the best and most varied exhibit of agricultural products. In addition to this we won first prizes for the best group displays of grains and forage, 90 varieties of forage and 82 of grains; the best display of home cured meats, 31 in glass and 16 dry cured; and the best display of tobacco. We also won second prizes for the best display of vegetable with 66 varieties and of syrup with nine varieties.

CARL B. TAYLOR, Secretary.

Expending \$1,500,000 on Residential Development Near Tampa.

Tampa, Fla.—The expenditure of \$1,500,000 is involved in the development being carried forward by Temple Terraces, Inc., about 9 miles from Tampa, on Nebraska Avenue. Contract has been let to the Newark Housing Corporation for the erection of 100 residences and to the Tampa office of the New Britain Construction Co., of New Britain, Conn., for the erection of 20, the dwellings to cost from \$5000 to \$25,000 each.

It is stated that a company will be organized by property owners and winter residents of Temple Terraces, to erect a Turkish bath house on the club grounds, with marble and cement swimming pools, contracts having already been awarded.

For the World's Cotton Supply More White Labor Is Needed in the Cotton Fields of the South.

By W. C. McCURE.

The spinner in the South is exercised over what appears to be a growing shortage in the supply of cotton to meet world requirements. The New England spinner is still more alarmed and in England, in certain quarters, the situation is regarded as so grave that the English spinners and others backed by certain governmental help are making Herculean efforts to foster the growing of cotton in many suitable countries within their zone of influence. The condition calls for much concern. The South is asked to do more than her economic limits will permit. Boll weevil conditions are known to all; latter day conditions may be said to be a growing shortage of labor and the lesson learned from the boll weevil of growing food and feed crops which absorbs more acreage and labor than formerly.

Something should be done to halt the emigration of negro labor from cotton fields—or, better still, to fill their places with labor more efficient. The cotton of the future will be made more and more by white farmers; cotton being no longer the black man's crop as exclusively as generally supposed. Were it not for the weather hazard of growing cotton under boll weevil conditions it might be safe to assume that present activities for the 1923 crop will prevent the situation going from bad to worse. The demand for fertilizers is going to be very heavy but credit restrictions will not permit of as much sold on credit as in former years. The general risks attendant upon the making of next year's crop present also the growing incapacity of the average grower to cope with latter day demands. There are gratifying instances, here and there, of what can be and is being done but such individual cases of efficiency and profitable production are very much in the minority. The South has the potential power to grow its quota of cotton; the need is for more farmers and better ones and some rather unique combinations of brains, money and elbow grease.

More negroes are leaving the cotton fields than are returning. The price of cotton does not seem to halt the movement away from the farm. The "hegira" is approaching alarm in those sections of the belt where boll weevil damage is more recent and heavier. The native white man of the South not now growing cotton is not likely to grow it any time soon. At 30 cents a pound he will not find it as profitable as the work he is doing in the towns, cities and in other lines of industry; moreover he naturally shuns the isolation of the average farm life and the inadequate educational facilities for his children by comparison with urban life, home comforts and social attractions. Thousands of able white men of the South will not go into the cotton fields as growers at 40 cents the pound. They are either able to make more at something else or prefer less money and avoid the "bone and sinew" of cotton farming. And 40 cent cotton for two years would spoil all too many thousands of negro farmers; they would have so much money they wouldn't have to work and they wouldn't. So it does appear reasonable to assume that higher prices for cotton will not increase its production very appreciably. New blood and new effort is sorely needed in the cotton fields of the South.

If the American spinner desires to do something to set things aright he might well take the lead in promoting cotton growing under the colonization or community idea. The problem is too grave to be solved by individual ability initiative and risk. Thousands upon thousands of acres of land, much of it fertile, lie idle and fallow in the wake of the boll weevil and but echoes the honk-honk of the passing auto. It seems only to require the touch of accomplished skill again to yield "ten fold sheaves for the garnerers of mankind"; but the skill of mankind seems to be too ac-

complished even to touch the land again, in all too many instances.

The successful cotton mill operator provides for his labor other things than a house to live in and water to drink, and the success of the modern cotton mill is due largely to its labor being contented and increasingly efficient. It is quite possible the spinner faces an imperative demand to assist the poor white man who is willing to grow cotton, to get on the land and lend such co-operation and guidance as will put him over the rocks and into success. He must have help to get started and pleasant surroundings to remain. Selected foreigners offer possibly the best field to draw from, but thousands of farmers in the North would find cotton production in the South under the community and co-operating idea much more profitable than what they are now doing—that is to say, grow cotton for net cash income. The white man does not throw bad light upon the suggestion of growing cotton from any idea that cotton is an unworthy plant, but, upon a misguided notion that the growing of cotton is beneath his dignity to tackle.

Some such collective effort as outlined is not untimely and is quite within the grasp of accomplishment and success. The success of the initial movement of 50 to 100 families would popularize the venture and the land owners of the South, who are today land poor with idle acres, would be found most reasonable to deal with. The land should be rented on the share crop plan, the acreage per family held within the full scope of intensive culture and the tenant should have the stimulating effect of an option to buy the land on a basis of its present reasonable value at the end of a given period or before. Community life and enterprise should be the watchword to attract. The best of practical guidance, sanitation and educational facilities should attend the venture throughout—for the isolation of the individual and resulting discontent with farm life is today responsible for the shortage of cotton even more perhaps than the boll weevil.

The spinner would not find it a difficult or hazardous undertaking to get thousands of deserving farmers on thousands of now idle acres in the South. The purchase of the land outright is not at all necessary. The landlord needs the land tended about as badly as the world will need the cotton. The really sad aspect of the situation is the once prosperous cotton plantation abandoned by weevil frightened negroes, all too many of whom were exploited rather than supported. The negro is not to blame for leaving; nor is the immigrant of the Northern farmer expected to have sufficient vision, unassisted, to see through the cloud of such dilapidated abandonment which, however, is but a thin mist.

Report on Wood Preserving Products for 1921.

The Department of Commerce announces that the value of products of establishments engaged in wood preserving amounted to \$47,422,000 in 1921 as compared with \$33,239,000 in 1919, and \$21,055,000 in 1914; an increase of 43 per cent from 1919 to 1921, and of 125 per cent for the seven-year period, 1914 to 1921.

This industry includes establishments engaged in treating wood with creosote, coal tar, crude oil, and other preservatives to prevent decay and for protection against fire, etc.

Of the 78 establishments reporting products valued at \$5000 and more in 1921, 9 were located in Illinois; 6 each in Louisiana, New York, Ohio, and Texas; 5 in Indiana; 4 each in Mississippi and Virginia; 3 each in Kentucky, Missouri, New Jersey, Pennsylvania, and Washington; 2 each in Alabama, Florida, and Minnesota; and 1 each in Arkansas, California, Georgia, Idaho, Michigan, Montana, Oklahoma, Oregon, West Virginia, Wisconsin and Wyoming.

Will Erect Grain Elevator and Storage Tanks of 1,750,000 Bushels Capacity—Fort Worth Elevators Company Provides Increased Facilities.

Fort Worth, Tex.—An elevator of 1,750,000 bushels capacity and storage tanks will be erected here by the Fort Worth Elevators Company which now owns and operates elevators and warehouses with a total capacity of 1,500,000 bushels. The new structure will be located on the east side of the M. K. & T. railway tracks, between Biddison and Waggoman streets, construction to begin at once.

The plant will consist of a head house or machinery building, 54 by 72 feet, 192 feet high, together with 36 concrete tanks, 23 feet in diameter, by 100 feet in height, with 22 interstices for bulk grain. The machinery house will be equipped with four 2500-bushel strait hopper scales, each under 2500-bushel garners. There will be six main elevator legs with 30 inch lifting belts of 10,000-bushel hourly capacity; two receiving legs, 2 shipping legs, one transfer leg and one leg for serving the two receiving separators of 5000-bushel hourly capacity, two Carter disc separators of the largest type, and one 1500-bushel an hour improved type clipper, with liming and smutting attachment. This machinery, with the necessary electric motors, will constitute the mechanical part of the elevators when two Richardson automatic sinking scales, one of 3 bushels and one of 6 bushels capacity, are included.

Officers of the Fort Worth Elevators Company, include Jule G. Smith, president; Wilton P. Ingraham, vice-president; Geo. C. Ingraham, secretary, and Jule B. Smith, assistant secretary and treasurer.

\$1,000,000 in Additional Improvements on Bay Shore Development at Miami.

Miami, Fla.—In addition to the erection of the proposed \$1,500,000 Nautilus Hotel, to which the MANUFACTURERS RECORD has already referred, the Bay Shore Corporation plans to expend \$1,000,000 for other improvements, including the building of streets, filling work, construction of bulkheads, etc.

Contract for filling the area around Surprise Lake and north of it, has been awarded to the Clark Dredging Co. This work will involve the removal of 3,000,000 cubic yards of earth. Ten miles of roads and six miles of streets will be built, the latter to be 20 feet wide. Contracts for sidewalks have been awarded to Bunnell & Cail and to the Biscayne Engineering Company. Rock for the roads will be supplied by T. B. McGahey, the Bay Shore Corporation to do its own grading.

For bulkhead work, contract has been awarded to J. J. Conkling for wood construction and to Bunnell & Cail for concrete. Some filling work is yet to be done on the two Islands near the Nautilus Hotel site, and bridges are to be built this summer. This work will be done by Mr. Conkling. Ten polo barns, at present located south of Flamingo field, are to be moved to the site of the new polo fields north of the Bay Shore golf course, five barns already being in this section.

North Carolina May Operate Steamships.

Raleigh, N. C.—The sixty-day session of the North Carolina legislature has ended. Governor Morrison says it will meet again, in special session, probably next October, to take action on his plan to purchase steamships and operate them. This session considered this matter, which was warmly pressed by the Governor, and appointed a commission to go into the question. The plan carries a \$2,000,000 bond issue. The commission is entitled the "State Ship and Water Commission."

Alabama Power Company Acquires Properties—Will Issue \$4,000,000 Bonds.

In connection with the issuance of \$4,000,000 bonds, permission for which has recently been granted it by the Alabama Public Service Commission, the Alabama Power Company writes the MANUFACTURERS RECORD as follows:

"The bonds in question were issued to reimburse the treasury for expenditures made in improvements and additions to the systems and to help finance the acquisition by this company of the Montgomery Light & Water Power Company, the Montgomery Light & Traction Company, the Power Transmission Company and the Peoples Electric & Ice Company, all of which companies were operating as public utilities serving the city of Montgomery, the towns of Cloverdale and Capitol Heights and adjacent district.

"The companies referred to have now been acquired and have been consolidated with the Alabama Power Company."

Tampa Votes \$2,650,000 Bonds to Purchase and Extend Water System.

Tampa, Fla.—As a result of the recent bond election in this city, Tampa will issue \$2,650,000 of bonds to purchase the properties of the Tampa Water Works Company and to provide adequate extension of the system. Proceedings for the validation of the bonds will be instituted at once, and it is thought the city will take over the properties by mid-summer.

Facilities purchased include all mains, service pipes, house connections, meters, wells, pumps, engines and other machinery together with all buildings, including pumping stations, power houses, etc.

\$2,000,000 Pulp and Paper Mill to Be Erected at Bastrop, La.

The Yellow Pine Paper Mill Company of Orange, Tex., wires the MANUFACTURERS RECORD as follows:

"Mr. Brown, active vice-president of this company, and associates propose building a 50-ton Kraft pulp and paper mill at Bastrop at a cost of about \$2,000,000. Construction of brick and concrete, steel-frame windows. Name of company, H. L. Brown Paper Co., Inc. Engineer, George F. Hardy, 309 Broadway, New York. Plans not completed and no contracts let yet."

This confirms recent reports to the effect that such a paper mill would be erected at Bastrop.

Texas Mine Leads in Quicksilver Output.

Quicksilver production in the United States in 1922, according to preliminary figures of the United States Geological Survey, total 6497 flasks, of 75 pounds net, as compared with 6339 flasks in 1921, which was the smallest annual output in the 72 years of recorded production of domestic quicksilver. In 1922 California produced 3494 flasks, Texas 2725 flasks, and Nevada and Oregon 278 flasks.

In Texas the Chisos mine, in the Terlingua district, Brewster County, yielded more quicksilver than any other mine in the United States. The Mariscal mine, near McKinney Springs, in the same county, was also productive. Prospecting was in progress at the Waldron mine, in the Terlingua district, 95 miles south of Alpine.

Water System Extensions to Cost \$1,500,000.

Fort Worth, Tex.—An order for \$400,000 worth of cast iron pipe to extend the water distributing system of Fort Worth has been placed with the American Pipe Company of Birmingham, Ala., by the city water department. Deliveries are to be made over a period of several months. Other improvements to the municipal water works plant and distributing system will cost \$1,100,000, a total of \$1,500,000 of bonds having been voted for the purpose.

NEWS AND VIEWS FROM OUR READERS

[Publication in this department of letters from our readers does not mean that we either approve or disapprove the views expressed. We believe in a full and frank discussion of the mighty questions of the hour, for only in this way can the truth be found. Therefore we often publish letters with which we do not agree.—Editor Manufacturers Record.]

A Proposed Revised Monetary System.

W. CARNOT HOLT, Montgomery, Ala.

As a preface to my theory, I will say that the present system of banking is a source of great anxiety to the banker, and works a heavy strain on him at all times, for two reasons, viz.:

If he has a large deposit account, and a small loan account, he will declare no dividend for his stockholders; this in itself will cause him to lose sleep. Again, if he has a large deposit account and a satisfactory loan account, taking say 50 per cent or more of his deposits, he knows that he will declare a satisfactory dividend, but lives in eternal fear and apprehension of a run being made on his bank, in which event, he has to get relief from other banks, issue scrip, or temporarily close his doors: either of which is fearfully detrimental to the bank's best interest.

National banks being creatures of the government, they should be, and are, entitled to the protection of the government. They should be provided by the government with "emergency funds" to the extent of the bank's deposit account. This will enable the bank to lend its capital stock; its surplus, and its entire deposit account down to the legal reserve. The emergency fund being of the government's issue, and made legal tender, for all debts public and private, such funds would "pass current." Thus you will see that the bank is protected against an unlooked for demand by depositors. These emergency funds are not to be used until the bank is in need of them, and while in use, the bank is to pay three per cent interest to the government.

Protect the Government: How can this be done? Simply by organizing a bonding company of \$100,000,000; the stock being subscribed for, first by the national banks, and then by the public. The banks will pay the bonding company one half of one per cent premium on its deposit account. The deposit account of all national banks today being \$4,319,035,402.62, the bonding company will receive annually \$21,595,177. Statistics for forty-five years show the annual losses to depositors to be \$771,705. Thus the bonding company of \$100,000,000 will protect the government for 135 years, even though it received no income from its premium account. Presuming that the banks subscribed for all of the stock in the bonding company, they will receive the benefit of the dividends, and this will reduce the premium to almost nothing.

Should the government hesitate in placing this emergency fund with each bank, then place sufficient funds near the center of each State, in the keeping of a government bonded officer, an amount equal to the deposit account of that state, with instructions to supply any bank by first express, such amount as may be asked for not in excess of the bank's deposit account. Under this plan, the government will have to secure against loss, all of the bank's capital; its surplus; the securities taken on loans; and the bond company's assets, so that it can be plainly seen that the government is not apt to suffer loss. Be it also fully known that the emergency money so issued by the government is not fiat money for the reason that the government has all of the above security behind each national bank, securities of value.

You will note that the national bank is so protected against

runs, that runs in the future will not occur. Again: This plan renders every bank absolutely independent of all other banks, as far as financial assistance is concerned, each bank having all assistance or "rediscounts" within its keeping.

It is a fact, that in the past our bankers, as a rule, have been desirous of accommodating their customers to the extent of their ability, and their ability was dependent upon their cash and surplus, plus what additional amount of depositors' money they felt safe in using, and also their ability to get that quick outside help in case of need. This fear of help from other banks has been so great as to really tie up depositors' money, thus under our present system practically withdraws from circulation that money, preventing it from functioning as it should. It is true that at times, much depositors' money is at work—but pause, if you please, and contemplate the hazardous position in which the bank is placed in the event the depositors want their money at a time when it is loaned to the bank's customers.

The government having created the national bank, it becomes the government's duty to protect that bank. And providing that bank with the emergency funds, as before outlined, will do this absolutely, and with perfect safety to the government.

In this plan, there are four interests involved, each dependent upon the others for success, and each a perfect support and protection to the others, forming a colossal strength. The government protects the bank and the depositor with its emergency funds; the bonding company protects the government with its capital stock, and premium account; the bank protects the bonding company with its premium of one half of one per cent; and the depositor protects the business of the country to the extent that depositors' money is used by business men. The banker does or should welcome the adoption of this plan for the reason that he is enabled to lend all of his deposit account, which he is now afraid to do, and which in most cases is far in excess of his cash capital and surplus and this is done with perfect safety and without fear of a run.

The depositor should welcome its adoption, for the reason that he will never again be asked to take scrip.

The bonding company should approve the proposition for the reason that it will be in receipt of many millions every year from its premium account.

The government should approve of it, because its adoption furnishes a sound enlargement of our circulating medium by enabling the banks to use depositors' money with safety, and also by reason of the 3 per cent receivable on emergency funds. This you must know will be enormous, and experience can only reveal the amount.

The greatest good will be in furnishing the business of our country with a greater volume of sound currency. The plan is instantaneous, automatic and elastic. The government might easily take the place of the bonding company, thus increasing its revenue to that extent. This plan would have a strong tendency to convert state banks into national banks. It could be handled at very low cost. Details can be easily worked out.

This is a synopsis of a monetary system, or banking plan, written by me November 5, 1907, the day the banks of our country suspended payment in currency, paying checks with scrip of the bank's issue.

THE IRON AND STEEL SITUATION

Steel Outlook Unchanged by Some Postponements of Building Construction—Demand Heavy.

Pittsburgh, March 17.—[Special.]—Cases have begun to appear of construction work being postponed on account of high cost. The reference is to the total cost, not to the cost of the steel in particular. Several western roads have withheld orders for freight cars while several buildings have been put off. Such postponements do not alter the steel outlook as it has hitherto existed, for the steel involved would not have been wanted until after July 1, and long after in the case of freight cars since the car shops already have more work than they can complete this year. The consensus of opinion has been that steel production would be heavy until after July 1 and that there would be a reaction before the end of the year.

Inquiry for steel for early deliveries continues heavy and insistent, remarkably so when the enormous production of steel lately and at present is considered. Production of ingots in the last quarter of last year was 10,000,000 tons and this quarter's production will run a trifle over 11,000,000 tons, making 21,000,000 tons in six months. Production in each of the two biggest pre-war years, 1912 and 1913, was 30,000,000 tons. Prior to 1906 not as much as 21,000,000 tons was made in a whole year. Undoubtedly part of the steel made in the past six months stands in the form of stocks ready for consumption. In March, 1920, production was nearly as heavy as at present, but production had been restricted previously, by the steel and coal strikes, and the very next month it was restricted again, by the "outlaw" rail strikes. This year it promises to continue very heavy as long as buyers call for steel. Much labor is involved, directly and indirectly, in the consumption of steel, and industrial activity in the next few months is going to be governed by labor supply. In other words, there will be what is called a "labor shortage." An actual shortage of steel next summer would be akin to a miracle.

Basis prices for the leading finished steel products have not altered in the past three weeks, and the general advance is over, in all probability, though there is a bare possibility that bars, shapes and plates, now 2.25c, may advance to 2.35c. There has been little disposition on the part of mills to sell for delivery beyond June, and little disposition on the part of jobbers or manufacturing consumers to buy for beyond that time. Inquiries and orders for steel for construction work, of course, run to much later times. On account of this situation the market of the nearby future will be largely a prompt delivery market, prices involving perhaps a delivery premium. In the past week delivery premiums have tended to become more prominent in plates, shapes, bars and sheets. On the whole, however, the tonnage involved is not large, and in view of the very heavy deliveries it seems improbable that there will be much tonnage commanding premiums. It must be remembered that while a premium is figured from the existing basis price it means a much greater advance over prices at which the bulk of the tonnage is being delivered. In bars, for instance, sales are being made at 2.35c, which is a "premium" of \$2 a ton since the basis price is 2.25c but the heaviest deliveries now being made are of bars at from 1.75c to 2.00c, on old orders, and it is not improbable that some bars are still to be delivered at less than 1.75c. The market is one thing and what the mills receive quite another thing.

Semi-finished steel has stiffened farther. Independent mills having regular customers in sheet bars have named a price of \$42.50 for second quarter deliveries, against \$36.50 for the current quarter, while consumers not regular customers have had to go elsewhere. Recently they paid \$45 and a sale of

about 10,000 tons has just been made at about \$2 more, this being by a steel mill that does not have regular customers.

There has been additional contracting for Connellsville furnace coke for second quarter, and the business in the movement now aggregates over 300,000 tons a month, against 250,000 tons counted up a week ago. The bulk of the business was done at \$7.00, per net ton at ovens, but most of the later business was at \$7.25. Consumers now seem to be well covered while the leading producers are comfortably sold up.

Basic pig iron has advanced to \$30, valley, as foundry had done a week ago, and Bessemer iron is also up to that level. Pig iron stiffened gradually from the middle of December until a fortnight ago, since when it has advanced sharply. The \$30 price now quoted as the market is on the basis of last sales, but with many if not all sellers quoting \$31 the market is likely to be established at that level, or higher, within a week. Furnaces are already moderately well sold for second quarter. There is no interest in third quarter as yet, but there are strong probabilities that there will be a good market for third quarter.

The trade considers it practically settled that Lake Superior iron ores will be at 50 cents advance for the 1923 season. Each year the market is fixed by the initial sales, which may now occur any time. A 50-cent advance would restore the 1921 schedule, leaving prices \$1 under the 1920 level. For two successive years furnaces have had to write down their stock piles, while now they will have a profit in their stocks, which are of very considerable size.

Birmingham Selling All Pig Iron It Can Make—Tendency Along Whole Line is Upward.

Birmingham, Ala., March 19.—[Special.]—The pig iron market in the Birmingham district, in all phases, is of an upward tendency, in production, shipment, consumption, and prices. All hands are busy. The prospects are as bright as they can be, there is no apprehension except as to delays, delay in getting raw material, delivery delays, and delays in answering inquiries. The strong market brings about a good feeling. The labor situation is being given attention. Wage adjustments put into effect the past week have had a wholesome effect. The advancing prices being asked for pig iron does not stop the demand.

Birmingham district is selling all the pig iron it can manufacture. The quotations have taken on additional strength and higher prices are intimated. The \$25 per ton price for No. 2 foundry is not to be heard of any more and some of the furnace interests are holding aloof from the \$26 per ton base. Sales have been made and are still made on the \$27 level and that price promises to obtain on such business as stipulates last half of year delivery. The production is reaching out for record mark in Alabama; already the peak obtained in May, 1917, when 259,126 tons were reported, is being approached. Alabama is given credit for 232,773 tons of iron for January and 227,285 tons in February.

Inquiries are coming in from every direction. Reiteration is to be heard that furnace interests in some sections are not producing in quantity to meet the demands and other districts are being called into the breach. Alabama iron is most acceptable and there is a happy parity in prices now. The Sloss-Sheffield Steel & Iron Company is shipping in steady quantity from its Florence and Sheffield furnaces on the Tennessee river, in the northwestern part of the State, the iron going by water and rail into the middle west, filling orders received through the Chicago and St. Louis agencies. This company is repairing a sixth furnace for operation.

The Tennessee Coal, Iron & Railroad Company will be able within a few weeks to blow in their old Oxmoor furnace. The

Woodward Iron Company has the second Vanderbilt furnace ready for the torch, while the Republic Iron & Steel Company has its third blast furnace at Thomas, part of Birmingham, also ready. No definite announcements are made as to the last three furnaces. The Woodward Company is selling iron for delivery at any time, asking \$27 per ton. Some spot iron is being sold through Birmingham offices. The tonnage disposed of for the third quarter is beginning to show a little strength but nothing in comparison with the probable make.

The Tennessee Coal, Iron & Railroad Company is using some manganese ore brought over from Arkansas while a goodly tonnage of South American manganese ore is coming up the Warrior river from the storage in Mobile. This company requires ferro-manganese for the steel plant at Ensley, the latter industry going at full speed, as are the steel mill and finishing departments of the Gulf States Steel Company at Gadsden.

Wage adjustments in the Birmingham district included the Gulf States Company, the Alabama Company, (in all divisions), several of the cast iron pipe making plants, (soil pipe), coal and ore producers, independent companies as well as the iron and steel companies. It is stated that some of the labor which left this section last year and the year before is beginning to return and the prospects are that the additional demand, which will come on as big industries under construction take up operations, will be supplied.

The big plant of the Phoenix Portland Cement Company, which was started on early last fall at North Birmingham, and scheduled to begin operations in June with a million and more barrels of cement to be manufactured annually, will be ready to produce within the next three weeks. The plant of the Lehigh Portland Cement Company at Tarrant City, will be ready within the next 60 days. The steel merchant bar mill of the Tennessee Company at Fairfield is almost completed as is the steel foundry at the same place. Other industries in the Birmingham district, including the new soil pipe plant of the Birmingham Machine & Foundry Company, are being rushed to completion and within the next 60 days expect to get into action. The Central Foundry Company at Holt, Tuscaloosa county, with a soil pipe plant, is also pushing its construction work.

The coke market is strong in this section. It is believed now that there will be need for all the coke that can be manufactured. Quotations show strength, \$7.50 to \$8.50 being asked for foundry coke, and spot coke bringing as much as \$1 per ton premium occasionally. All ovens in shape are being operated.

The scrap iron and steel market has taken on impetus and there is a great demand. Dealers are showing a little hesitation in selling into the third quarter. No. 1 cast has taken on considerable strength lately and dealers can get orders a-plenty.

PIG IRON

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$26.00 to \$27.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$26.50 to \$27.50; iron of 2.75 to 3.25 per cent silicon, \$27.00 to \$28.00; iron of 3.25 to 3.75 per cent silicon, \$27.50 to \$28.50; iron of 3.75 to 4.25 per cent silicon, \$28.00 to \$29.00; charcoal iron, f. o. b. furnace, \$35.00.

OLD MATERIAL.

Old steel axles.....	\$27.00 to \$28.00
Old iron axles.....	30.00 to 31.00
Old steel rails.....	17.00 to 19.00
Heavy melting steel.....	16.50 to 17.50
No. 1 R R wrought.....	20.00 to 21.00
No. 1 cast.....	23.00 to 24.00
Stove plate.....	18.00 to 20.00
Old car wheels.....	21.00 to 22.00
Old tramcar wheels.....	23.00 to 25.00
Machine shop turnings.....	11.00 to 12.50
Cast iron borings.....	12.00 to 12.50
Cast iron borings (Chem.).....	16.50 to 17.00

E. B. Tanner has been appointed chief of the Timber Section of the Bureau of Internal Revenue, Department of the Interior. Mr. Tanner is regarded as a well-trained forester, and was for many years valuation engineer in the Timber Section.

RAILROADS

HUGE TOTAL OF EQUIPMENT ORDERS.

Since January 1, \$165,000,000 or More Announced for Car and Engine Purchases.

The announcement by the Pennsylvania Railroad System that new equipment to the amount of \$57,000,000 has been ordered by it to be placed in service this year, some of it being already delivered, directs attention to the fact that equipment purchases announced by a number of roads, including the Pennsylvania, since the first of the year aggregate \$165,000,000 or more. The Southern Railway System, for instance, several days after the Pennsylvania's announcement, stated that new cars and locomotives just ordered by it would cost \$17,000,000. Then there were recent announcements of equipment purchases by the Louisville & Nashville Railroad, \$20,000,000; Illinois Central Railroad, \$18,500,000; Baltimore & Ohio Railroad, \$24,325,000; Norfolk & Western Railway, \$8,000,000; St. Louis-San Francisco Railroad, \$8,000,000; Atlantic Coast Line, (engines), \$2,500,000; Southern Pacific Lines, (engines), \$2,000,000; Central of Georgia Railway, \$4,000,000; and Rock Island Lines, \$3,000,000. Several other lesser roads also announced their equipment orders.

The Baltimore & Ohio Railroad has just awarded contracts for 75 more locomotives that are expected to be delivered in the fall. They will cost about \$75,000 each or a total of \$5,625,000, which is included above. The Baldwin Locomotive Works plant at Eddystone, Pa., will build 50 of them and the Lima Locomotive Co., Lima, Ohio, 25, both plants being on the Baltimore & Ohio System. These engines will be of the Santa Fe type and of particularly heavy construction, having ten driving wheels that are unusually large for freight engines, and they will therefore be able to make fast time with heavy loads.

In connection with the Pennsylvania's announcement it is stated that in order to handle its share of the country's growing traffic—normally about 11 per cent of the total freight business and 17 per cent of the passenger business—this company is making large additions to its motive power and other rolling stock. Since January 1 it has ordered 500 locomotives all of which are to be ready by the time of the great annual movement of traffic in the fall. Besides, the company has received 100 heavy freight locomotives ordered last summer and in addition to this the last of 250 passenger cars are being received, besides 15 locomotives which the railroad has built at its own shops. Three new and better electric locomotives and 100 cabin cars are also being completed. There were 20 steel dining cars built at Altoona. Another important action was putting 70 ton trucks under about 10,000 coal cars in place of 50 ton trucks, this increasing the capacity of this equipment about 31 per cent. Of the 500 engines ordered since January 1 there will be 125 built at the railroad company's shops while 375 will be built at the Baldwin Works.

The Southern Railway has spent a total outlay of \$30,000,000 for equipment within two years, \$13,000,000 worth having been ordered last year. Distribution of the company's car orders is described thus: Kilby Manufacturing Co., 200 stock cars; Standard Steel Car Co., 1000 box cars and 1500 hopper cars; American Car & Foundry Co., 1500 box cars and 1365 hopper cars; Mount Vernon Car & Manufacturing Co., 570 box cars; Pullman Company, 5 dining cars. The engines will be built by the American Locomotive Co., as previously announced.

Interstate Railroad has applied to the Interstate Commerce Commission for authority to sell \$775,000 of its stock to the Virginia Coal & Iron Co., which controls the railroad, the proceeds to go toward paying for 500 steel hopper cars.

A Broad Revision of Mississippi Valley Freight Rates.

The Interstate Commerce Commission on March 15 ordered a sweeping revision of freight rates on about twenty groups of commodities between Memphis, Natchez, New Orleans and other crossing points on the eastern bank of the Mississippi River south of Memphis; and Arkansas points from Natchez, Miss., to the western part of Louisiana; also from St. Louis, Cairo and other upper crossing places to points in Arkansas and adjoining parts of Missouri, Oklahoma, Texas and Louisiana.

An investigation of rates in this territory has, it is stated, been in progress since 1917 and the general effect of the decision is to raise commodity rates in the southeastern part of Missouri, in Arkansas, the western part of Louisiana and in some portions of the northern part of Texas and Oklahoma. The average increase is probably about 20 per cent, but on some short hauls rates were increased as high as 50 per cent.

"The essence of the complaints in these cases," said the Commission, "is the alleged undue prejudice against certain jobbing and distributing centers, and undue preference and advantage of others."

It is intended that this revision shall remove the ground for these complaints.

Plan for Electric Railway, St. Louis to Kansas City.

Warrenton, Mo., March 16 [Special.]—As a result of a visit here of Lee Dunlap, of Kansas City, chairman of the board of directors of the Missouri Central Construction Company, a committee has been appointed to look into the proposition of that company to secure the support of counties in Missouri for the construction of an electric line between Kansas City and St. Louis a proposition that has been up at various times during the past two decades. The company represented by Mr. Dunlap built the Kansas City-St. Joseph and the Kansas City-Excelsior Springs electric railways. Much of the survey has been made and the proposition is that Warren County and St. Charles County raise money for their share. The projected line between the two cities is designed to reduce the distance as compared with the steam lines. It is claimed that much time will be saved and that freight rates will be lowered.

Heavy Freight Movement Increasing.

Loadings of revenue freight on the railroads during the week ended March 3 totaled 917,896 cars, which according to the American Railway Association, was the greatest number ever loaded during any like period at this season of the year. This was an increase of over 87,000 cars as compared with the previous week (which, however, had a holiday in it—Washington's Birthday anniversary), but it also exceeded the corresponding week of last year by over 124,000 cars and the same week in 1921 by over 206,000 cars. It is also noted that car loadings for the week were the heaviest since the week of December 9 last indicating unprecedented business activity for this time of the year.

Interurban Proposed from Houston to Beaumont.

Ed. Kennedy, 310 Chronicle Building, Houston, Texas, who is widely known for his long activity in railroad work in Texas, writes to the MANUFACTURERS RECORD confirming press reports that he is now engaged on plans for the Houston, Beaumont & Orange Interurban Line. He says: "I am assembling this work, getting rights of way and bontises preparatory to starting grading and bridge work. The distance from Houston to Orange is about 100 miles; our line is 7 miles shorter than the Southern Pacific line. Our line penetrates some of the best farming land in the state of Texas. The population of Orange, Jefferson, Chambers,

Liberty and Harris counties is over 760,000; they are densely populated. Our line also goes through one of the best oil field sections of Texas which is being developed now.

"We will handle passengers and express commodities. From Houston the road will run to Goose Creek, Wallaceville, Stowell, Beaumont and Orange and from Beaumont to Port Arthur. Expect to go over some leased trackage. All of these are thriving cities, growing in every direction in all communities and it will be a very good revenue paying line on account of population and future development."

Railroad to Serve Coal Mines.

President G. W. Allen, of the Charleston Coal Co., Inc., Charleston, Ark., writes the MANUFACTURERS RECORD that the Charleston & Northeastern Railway Co., lately incorporated, is to build about 5 miles of standard gauge railroad from Charleston to Dahoma, Ark. The purpose of this line is principally to serve the mines of the Charleston Coal Co., but it will also handle general freight traffic. Connection at Charleston is with the Missouri Pacific Railway. The construction work will be rather light and it will be started immediately, the road being built under the personal supervision of Mr. Allen, who is also president of the railroad company. The mines produce and ship semi-anthracite coal.

Illinois Central May Acquire Mobile Line, According to Reports West.

An interesting report at Memphis, Mobile, Paducah, Ky., and other points related thereto is that the Illinois Central Railroad Co. contemplates purchasing the Gulf, Mobile & Northern Railroad, which extends from Jackson, Tenn., on the Illinois Central system, to Mobile, Ala., 409 miles. This would give the system a direct outlet to another port on the Gulf of Mexico in addition to New Orleans.

The report appears to have originated because of a trip which C. M. Kittle, senior vice-president of the Illinois Central and L. W. Baldwin, vice-president in charge of operation of that system made together over the Gulf, Mobile & Northern recently. Mr. Kittle is quoted by the Associated Press as saying that there is no foundation for the report and at the offices of the Gulf, Mobile & Northern line in Mobile it was stated that the two Illinois Central officers were looking into the possibilities of growing Satsuma oranges in territory around Mobile, but the fact that Mr. Kittle is senior vice-president of the road and Mr. Baldwin is its operating vice-president lent much weight to the report that they were considering the Gulf, Mobile & Northern Railroad with especial regard to the possibility of merging it into the system. The Mobile Register says that the two visiting officials spent part of their time at Mobile in the inspection of water front properties and that their visit was kept quiet.

For several years the question of final ownership of the Gulf, Mobile & Northern Railroad has been and still is a matter of speculation. At one time it was expected that the St. Louis & San Francisco Railroad and the Louisville & Nashville Railroad, which were jointly interested, would make it an important line to the Gulf, but they finally disposed of their interests. At present John W. Platten, of New York, is chairman of the board and vice-president, the president being I. B. Tigrett, of Mobile. The United States Mortgage & Trust Co., of New York, is trustee for the bonds, which amount to \$5,000,000.

There are two branches of this railroad, one from Beaumont to Hattiesburg, Miss., 26 miles; the other from McLain Junction to Muse, Miss., 28 miles. It also controls the Meridian & Memphis Railway from Meridian to Union, Miss., 33½ miles, but that is independently operated.

LUMBER AND BUILDING MATERIALS

Lumber Industry Now at Full Normal.

Washington, March 15.—Running practically full normal capacity, 399 mills located in every important lumber producing district of the United States reported to the National Lumber Manufacturers Association by telegraph today that production, shipments and orders for the week ended March 10, gained slightly over the preceding week. Taking the three factors together, business for the past week exceeded that of the same week last year by around 40 per cent.

The mills reporting shipped 14 per cent more lumber than they produced and their new business was 1 per cent less than production. Mills of the Southern Pine Association shipped 2 per cent more than they produced and their new business was one per cent greater than production. Mills of the West Coast Lumbermen's Association boosted their shipments 15 per cent above production while new business was 7 per cent below the cut. For the 360 mills, included in the above 399, that have a normal production figure for the week, actual production was 98 per cent, shipments 111 and orders 97 per cent of normal production.

Viewing the lumber situation in the South, the Southern Pine Association reports from New Orleans as follows:

"The increasing seriousness of the freight car shortage situation recently developed in the southeast, was reflected last week in a decrease of 4.3 per cent in shipments of Southern pine, below those of the previous week. Reports of increased tightening of the car supply through Southern Pine Association territory, and fear of the southeast car shortage spreading over the remainder of the South, caused the Southern Pine Association to appeal to the American Railway Association to immediately remedy conditions. With favorable weather for logging, last week's production almost equalled the preceding week's, while new orders increased slightly."

Reporting from Seattle, the West Coast Lumbermen's Association announces that production amounted to 107,807,674 feet; sales to 99,860,138 feet and shipments 125,076,612. Production for the mills reporting was 14 per cent above normal. New business was 7 per cent below and shipments 25 per cent above production. Of the new business 43 per cent was for future water delivery, of which 26,177,826 feet was for domestic cargo delivery and 16,995,500 feet for export. The new business for delivery by rail amounted to 1744 cars. Forty-one per cent of the week's lumber shipments moved by water; this amounted to 51,169,800

feet, of which 39,720,959 moved coastwise and intercostal, and 11,448,841 went over seas. Actual rail shipments totalled 2318 cars and local auto and team deliveries amounted to 4,366,812 feet. Unfilled domestic cargo orders now total 161,502,753 feet, unfilled export orders amount to 862,868 feet, and the unfilled rail trade orders have accumulated to 10,767 cars in the first ten weeks of the year.

The Western Pine Manufacturers Association reports from Portland, Ore., that with but 14 out of 45 mills down last week, identical mills show a 25 per cent production increase for the week, with orders and shipments slightly less.

The lumber movement for the past week, the corresponding week in 1922 and the preceding week this year, is as follows:

	Past Week.	Corresponding Week 1922.	Preceding Week 1923 (Revised.)
Mills	399	378	393
Production	237,273,423	179,779,597	233,869,433
Shipments	269,617,772	179,939,737	259,593,573
Orders	236,001,311	168,851,556	232,905,078

The following figures summarize the lumber movement for the first ten weeks of this year as compared with the same weeks of last year:

	Production.	Shipments.	Orders
1923	2,049,481,896	2,494,592,365	2,699,371,081
1922	1,762,385,069	1,691,636,908	1,744,253,058
1923 Increase	287,096,827	802,955,457	955,118,023

Heavy Shipments of North Carolina Pine.

Orders for North Carolina Pine show an increase since the last report of over 2,000,000 feet or 26 per cent, and shipments are heavier than they have been since the week ending December 16 last. Following is the report of the North Carolina Pine Association on 46 mills for the week ending March 10:

	Total Feet
Orders	9,887,381
Shipments	11,154,918
Production	10,527,084
Normal Production	10,870,000

Orders were 20 per cent below shipments, 6 per cent below actual production and 9 per cent below normal production. Shipments were 5 per cent above actual production and 3 per cent above normal production, and actual production was 3 per cent below normal. The week shows an increase in orders over the preceding week of 2,059,947 feet or 26 per cent.

LUMBER MOVEMENT FOR TEN WEEKS, AND FOR THE WEEK ENDING MARCH 10.

	Production		Shipments		Orders	
	1923	1922	1923	1922	1923	1922
Southern Pine Association:						
Total	762,544,198	735,141,536	851,402,814	650,365,781	946,865,082	677,505,014
Week (135 mills)	79,695,777	71,827,344	81,125,760	67,742,550	80,667,792	65,366,725
West Coast Lumbermen's Ass'n.:						
Total	888,783,386	764,116,920	1,055,380,461	692,476,935	1,078,053,471	660,723,395
Week (138 mills)	107,807,674	80,590,443	125,076,612	76,213,927	99,860,138	67,727,681
Western Pine Mfrs. Ass'n.:						
Total	133,772,000	87,408,000	245,583,000	173,963,000	243,150,000	185,925,000
Week (45 mills)	21,657,000	10,860,000	30,305,000	17,495,000	25,825,000	15,950,000
Calif. White & Sugar Pine Mfrs.:						
Total	27,411,000	18,908,000	64,301,000	33,275,000	135,834,000	60,517,900
Week (6 mills)	953,000	1,150,000	4,113,000	3,575,000	3,403,000	4,064,000
Calif. Redwood Ass'n.:						
Total	73,817,000	59,660,000	88,572,000	58,783,000	113,170,000	69,550,000
Week (14 mills)	8,877,000	6,624,000	9,046,000	5,967,000	9,438,000	6,744,000
North Carolina Pine Ass'n.:						
Total	78,491,012	80,743,613	86,205,590	65,337,192	85,509,528	73,271,649
Week (28 mills)	5,445,572	7,868,810	6,250,600	7,780,260	4,592,381	8,189,150
Northern Hem. & H'wood (Sftw'd):						
Total	22,901,000	16,407,000	22,551,000	17,436,000	23,810,000	17,661,000
Week (18 mills)	2,210,000	859,000	2,377,000	1,166,000	2,138,000	810,000
Northern Pine Mfrs. Ass'n.:						
Total	71,762,300	.....	80,596,500	.....	72,979,000	.....
Week (9 mills)	7,087,400	.....	8,697,800	.....	7,597,000	.....
General Total for 10 Weeks (Sftwd.)	2,049,481,896	1,762,385,069	2,494,592,365	1,691,636,908	2,699,371,081	1,744,253,058
Northern Hem. & H'wood (H'dwood)						
10 Weeks	35,791,000	.....	29,976,000	.....	29,386,000	.....
General Total for Week	237,273,423	179,779,597	269,617,772	179,939,737	236,001,311	168,851,556

Heavy Production and Movement of Cement.

Production of portland cement in February was greater than in January, notwithstanding there were three less working days. The total output for the month was approximately 7,971,000 barrels, an increase of 86 per cent over February, 1922. Mills operated at approximately 72 per cent of capacity.

The unusually heavy winter movement of cement, which was noted in January, was continued throughout February. 6,022,000 barrels were shipped from the mills during the month, or 83 per cent more than a year ago. The best previous February was in 1920 when 3,987,000 barrels were shipped.

Both production and shipments for the first two months of this year were greatly in excess of any similar period in previous years.

Stocks of finished cement at the mills were approximately 13,343,000 barrels, which is about 10 per cent above the average for the past five years.

Will Build Hardwood Mill.

Birmingham, Ala.—Covington & Young, hardwood manufacturers of College Grove, Tenn., have acquired a site on the Tennessee river near Albany, Ala., and will at once erect a mill for the manufacture of hardwood band and finishing products.

TEXTILE

Contract Let for \$500,000 Cotton Mill.

Rockingham, N. C.—Contract for the \$500,000 cotton mill, which the Leak Manufacturing Company will erect near Rockingham, has been awarded to T. C. Thompson & Brothers of Charlotte. The development will consist of the complete mill, warehouse, dyehouse, and boiler room, in addition to the mill village of about 70 houses. Robert & Co., Inc., of Atlanta, are the engineers.

The Leak Manufacturing Company has an authorized capital stock of \$1,000,000, and plans to operate on a capital of \$600,000. Its promoters include T. C. Leak, of Rockingham, W. P. Parsons of Wadesboro, and others. The site of the mill is between Watson Heights and the Entwistle Mill, convenient to both the Seaboard and Rockingham railroads.

Mooresville Cotton Mills Plan Big Addition.

Mooresville, N. C.—The Mooresville Cotton Mills Company has awarded a number of contracts for improvements to cost about \$750,000. The authorized capital stock of this company was recently increased from \$1,500,000 to \$4,000,000.

Increased facilities will involve the construction of a mill building, 600 by 125 feet, 2 warehouses and 100 or more dwellings, work to begin about April 1. A total of 10,000 or more spindles will be installed, with accompanying looms, to care for the output. The mills now operate 40,000 spindles.

Contracts for the brick work on the proposed buildings have been awarded to Thomas F. Walls, and for the erection of the dwellings to W. H. Davis, both of Mooresville.

Cotton Mill Planned for Marshville.

Marshville, N. C.—Plans are being developed by the Marshville Chamber of Commerce, E. E. Marsh, president, for the establishment of a cotton mill here. It is the purpose of the promoters to incorporate with a capital stock of \$100,000, and to begin operations in a small way, but gradually enlarge the scope of the enterprise as its business develops.

Morehead Stack and Joe Hudson, both of Monroe, N. C., and S. M. Robinson of Lowell, Mass., are interested in the new mill, site for which is now under consideration.

Addition for Grendel Mill to Cost \$500,000.

Greenwood, S. C.—An addition to mill No. 2 of the Grendel Mills, which will be built and equipped at a cost of \$500,000, will be made at once, according to a decision of the board of directors of the company. J. E. Sirrine & Company of Greenville are the engineers and it is expected that work will begin about April 1 and improvements completed by September.

An extension of the present mill building on the south side, 141 by 132 feet, four stories, will be constructed. It will accommodate 12,000 additional spindles and 300 looms. The mill at present operates 29,000 spindles and 600 looms. This expansion, it is said, will furnish employment to 200 more operatives, and to meet the demand for additional living facilities, 50 more dwellings will be erected. Upon the completion of the extension the Grendel Mills, with plant No. 1, will have a total of 74,000 spindles and 1702 looms. Mill No. 1, produces sheetings and mill No. 2 manufactures fine print cloth.

Officers of the company include J. P. Abney, president; J. C. Self, vice-president, and J. E. Burnside, secretary. J. E. Thompson is general superintendent, while W. K. Woods is superintendent of mill No. 1 and L. E. Foster of Mill No. 2.

Will Establish Weaving Mill.

Concord, N. C.—Plans for the organization of the Hobarton Manufacturing Company are under way and the establishment of a weaving mill will soon be accomplished. The company has engaged Lockwood, Greene & Co., of Charlotte, as engineers, and will install 100 looms for weaving colored goods novelties. A dyeing plant will also be installed. Loom equipment has been purchased, but dyeing, slashing, and winding machinery will be needed.

Incorporators of the company, include E. C. Barnhardt, Sr., A. R. Howard, C. A. Cannon, W. B. Bruton, M. L. Cannon, E. C. Barnhardt, Jr., C. B. Wagoner and J. F. Cannon. Officers have not yet been elected.

\$600,000 for Enlargements to Alma Mills.

Gaffney, S. C.—Additions to the plant of the Alma Mills here will be built and equipped at a cost of \$500,000 to \$600,000, according to an announcement by Dr. W. C. Hamrick, president. A building of approximately the same size as the one now housing the company's plant will be constructed at the southern end of the present building, and equipped with 15,000 additional spindles, increasing the total spindleage to 25,000.

About 400 additional looms will be installed and 75 additional dwellings be erected.

Textile Mill Notes.

The Nicholson Hosiery Mills of Chattanooga, Tenn., have incorporated with a capital stock of \$50,000 and will lease quarters for its operations. Incorporators of the company include F. C. Nicholson, N. J. Nicholson, R. L. Westcott, A. C. Foust and J. L. Foust.

Capitalized at \$500,000, the Ocilla Cotton Mills of Ocilla, Ga., have organized with H. E. Oxford, president; J. J. Flanders, vice president; H. H. Hill, secretary, and R. K. Brown, treasurer, all of Ocilla. The company will build a 10,000-spindle mill for the production of cotton fabrics. Dimensions of buildings have not been determined.

Plans for the new building to be erected by the Amazon Cotton Mills, Thomasville, N. C., are nearing completion, and will be ready for bidders within a few days. The building will be of standard mill construction, 488 by 132 feet, specifications calling for completion by September 1. Heating, plumbing, humidifying and electrical equipment have not been contracted for. J. E. Sirrine & Company of Greenville, S. C., are the engineers.

GOOD ROADS AND STREETS

Eight West Virginia Roads to Cost \$240,833.

Clarksburg, W. Va.—Contracts have been awarded by the County Court of Harrison County for building 8 sections of road in several districts of the County, at an aggregate cost of \$240,833. These include 8950 feet of bituminous macadam in Clark district, extending from the West Milford road to the Country Club, contract for which was awarded to W. F. Allen & Co., of Clarksburg, at \$29,965. Contracts were also awarded to the same firm at \$28,000 for the construction of 5280 feet of one course plain cement concrete in Ten-Mile district from Jacobs Run School House to the Doddridge County line, and at \$20,620 for the construction of 2700 feet of one course plain cement concrete pavement in Sardis district, from the east end of Wallace to the railroad crossing at Irving Siding.

The Paul S. Horner Co., of Clarksburg, was awarded contract at \$47,249, for building 9000 feet of bituminous macadam in Union district, extending from Gusman Bridge to Lewis County, and at \$42,296, for 6200 feet of one course plain cement concrete pavement in Eagle district from Lumberport toward Laura Lee.

For the construction of 5280 feet of one course plain cement concrete pavement in Simpson district, from Bridgeport toward Boothsville, contract was awarded to N. M. Leigh, Mannington, W. Va., at \$31,701, and for constructing 5550 feet of the same class of pavement in Ten-Mile district, from Northwestern Turnpike to Salem Fork, contract was awarded to the Salem Bridge & Construction Co., Salem, W. Va., at \$31,000. L. D. Thompson, of Clarksburg, was awarded contract at \$10,000 for grading and drainage on 6300 feet in Coal district, from Clarksburg toward Glen Falls.

G. L. Coyle, of Clarksburg is the engineer in charge of this construction.

Plans Expenditure of \$750,000 Bond Issue Funds.

Inverness, Fla.—The Board of County Commissioners of Citrus County has agreed upon plans for the expenditure of \$750,000 of road bonds, recently voted. Of the total, \$375,000 will be applied to the construction of State road No. 5, Dunnellon to the south county line by way of Holder, Hernando, Inverness, and Floral City. It is estimated that this road will cost \$700,000, of which the State Road Department has agreed to pay \$350,000.

Citrus County will apply \$250,000 to building the Crystal River-Inverness road, by way of Lecanto; \$24,000 to the Homosassa road to Crystal River; \$20,000 for the road from Crystal River to Inglis; \$24,000 for the Red Level road to Dunnellon; \$3000 to the Camp's Dam road, connecting with the Crystal River-Dunnellon road, and \$6000 to the Maple road, running to the Crystal River-Inverness road.

For building the road from Holder to Stokes' Ferry, the county will appropriate \$10,000, while \$22,000 will be required for the construction of a road from Floral City to Weed's Landing and Istachatta, including three quarters of a mile in Floral City. An appropriation of \$16,000 will be made for the road from Inverness to Rutland Ferry.

Will Build Three-Mile Road in Marion County.

Fairmont, W. Va.—Plans and specifications which are now on file in the offices here of Lee N. Satterfield, County Clerk, and of B. H. Palmer, district Road Engineer, provide for grading, placing drainage structures and paving about 3 miles of the Grafton road in Union district of Marion County.

Bids for the work will be received by the County Court until March 28.

Pinellas County to Vote on \$3,275,000 Bond Issue.

St. Petersburg, Fla.—Outlining a program for building seven roads, as recommended by the Taxpayers Good Roads Association, the Commissioners of Pinellas County have called an election for May 2 to vote on \$3,275,000 bonds. A total of 89 miles will be constructed, no contracts to be let, however, until the voters pass on the bonds.

The roads to be built include the Seminole road from Davista to the Pasco county line, about 30 miles up the west side of the county; seven miles of the road from Ozona to the Hillsborough county line; twelve miles from Clearwater to Oldsmar; fifteen miles from Indian Rocks to Safety Harbor; thirteen miles of secondary construction on Haines road from St. Petersburg to the Largo intersection; Gandy bridge approach from the Largo intersection to the bridge head, 6 miles, and the Gandy bridge approach from Fourth street, 6 miles.

C. E. Burleson is the county engineer and it is stated that bids will be asked on four types of paving, including vitrified brick, grouted and waterproofed with asphaltic filler; asphaltic block; sheet asphalt, and bitulithic concrete.

Roads in Four Texas Counties to Cost \$522,977.

Fort Worth, Tex.—Road projects in Uvalde, Schleicher, Red River and Palo Pinto counties, aggregating a cost of construction of \$522,977, have been approved by the division office at Fort Worth of the State Bureau of Public Roads. The construction will involve federal aid of \$113,312.

In Uvalde county, it is planned to build 7.6 miles, extending from a point three miles northeast of Uvalde to the west bank of the Frio river, at a cost of \$85,888, and in Schleicher county, 9.9 miles of gravel road with bituminous top, on the Sonora-San Angelo road extending south from a point two miles south of the Tom Green county line, at a cost of \$133,859. In Red River County, at a cost of \$102,047, there will be built 7.6 miles of gravel road, extending from Bagwell through Detroit to the Lamar County line and in Palo Pinto County, 9.8 miles of water-bound macadam with surface treatment, beginning at the Stephens County line and extending to Metcalf Gap, to cost \$201,191.

A. R. Losh is the district engineer.

Louisiana Highway Commission Invites Road Bids.

Baton Rouge, La.—Sealed bids will be received until March 27 by the Louisiana Highway Commission, W. T. Peterman, chairman, for the construction of 6.58 miles of road on federal aid project No. 129, in West Feliciana Parish on the St. Francisville-Baton Rouge Highway, between St. Francisville and the Thompson Creek bridge.

The construction will include grading, draining and surfacing with gravel, plans and specifications for which are on file at the office of the Commission in Baton Rouge. J. M. Fourmy, is the State Highway Engineer.

Humphreys County Lets \$218,000 Road Contract.

Belzoni, Miss.—Contract has been awarded to John Gerkins & Co. of Pensacola, Fla., on his bid of \$218,111, for the construction of 7 miles of concrete highway in Humphreys County, beginning at the Sunflower County line and extending southeast toward Belzoni. This contract also involves the construction of the Isola Bridge, the cost of which is estimated at \$16,744.

Work will begin within a short time and will be pushed as rapidly as possible, the limit for construction being 400 working days.

Louisiana Invites Bids for Roads and Bridges.

Baton Rouge, La.—Bids have been invited by the Louisiana Highway Commission of which W. T. Peterman, is chairman, for the construction of 2 roads and 12 bridges in several parishes. The roads will include 12.5 miles of gravel construction on the Ruston-Monroe highway in Lincoln Parish, and 8.63 miles of gravel road on the Tallulah-St. Joseph highway in Madison Parish, bids to be opened on both sections April 10.

On April 12, the commission will open bids for the construction of a bridge over Little Natchez Creek, consisting of an 80-foot steel truss span, with concrete floor, and 20-foot girder approaches on each end, together with 152 lineal feet of creosoted pile trestle approach to steel truss span over Saline Bayou. On the same date, bids will be opened for the Mermonteu River bridge in Acadia Parish, and 8 other bridges in Madison Parish.

J. M. Fourmy is the State Highway Engineer, with offices in Baton Rouge.

Three Good Roads Conventions at Greenville.

Greenville, S. C.—Conventions of three good roads associations are scheduled for this city during the week of April 16-21. These are the United States Good Roads Association, Bankhead National Highway Association, and the United States Good Roads Show. Many speakers have accepted invitations to address the conventions, including the Secretary of Agriculture, a number of Governors, United States Senators and Representatives, as well as highway commissioners and engineers.

In connection with the conventions it is stated that the federal government will send a comprehensive display of good roads pictures and models, to occupy over 1000 square feet in Textile Hall.

50 Miles of Road to Cost \$1,800,000.

Duncan, Okla.—The Highway Commission of Oklahoma, Fred G. Simmons, chief engineer, will build 50 miles of road in Stephens County on projects Nos. 99 and 102, near this city. A total of \$1,800,000 is available and it is planned to construct a high type of pavement. Mr. Simmons will be in charge of the work.

Duval County Will Vote on \$3,000,000 Bonds.

Jacksonville, Fla.—An election has been called by the Board of County Commissioners of Duval County for May 15, on \$3,000,000 road and bridge bonds of which \$2,550,000 is intended for the construction of roads, and \$450,000 for building concrete bridges over McGirts Creek, on the Orange Park road, and over Trout Creek on the Fernandino road.

Good Roads Notes.

The State Road Department of Florida has awarded contract to Hancock Brothers, of Mobile, Ala., at \$138,556, for the construction of project No. 35, on the road from Pensacola to Nunez Ferry, in Escambia County.

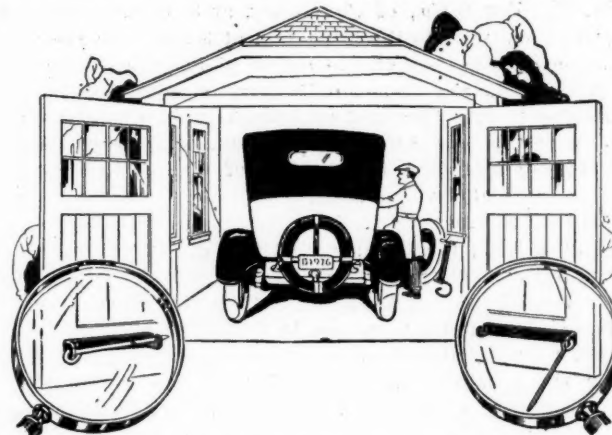
The North Carolina legislature has provided for \$15,000,000 more in State Highway bonds to be added to the \$50,000,000 provided by the legislature of 1921. This will give the State 2000 miles of hard surface highway, and several thousand miles of sand-clay and other types.

Bids have been invited by the Court of McDowell County, W. Va., and will be opened April 12 in Welch, for grading and draining 7.4 miles of 16-foot roadway on the Bradshaw-Grundy road, in Sandy River District. Plans may be seen at the office of the W. J. McClaren Company, Engineer, at the Court House in Welch, and also at the office of I. E. Basham, Asst. Engineer, at Bradshaw, W. Va.

MECHANICAL

Handy Door Holders for Garages, Etc.

A simple, practical door holder for use on all ordinary swinging doors of garages, barns or other buildings is the "R-W Door Dog" shown in the accompanying illustration just as it looks when in use. It will be observed in the picture that one of the door dogs (seen through the circle of



DOOR DOGS IN USE ON A GARAGE.

a magnifying glass on each side), is dropped with its point against the ground to hold the door open, while the other is up as it appears when not in use.

These door dogs, it is noted, do not require any stooping or propping for adjustment. To keep doors open and thus prevent slamming, the pin is lifted off the keeper with one's foot and it then drops to the ground where it will grip any kind of surface, even if it be hard concrete. To close the doors it is only necessary to lift the dog with the foot dropping it into the slot which is there to receive it, when the doors may be immediately shut.

The manufacturers of this useful and practical device are the Richard-Wilcox Manufacturing Company, Aurora, Ill.

FOREIGN NEEDS

[The MANUFACTURERS RECORD receives many letters from abroad asking for information about American goods, and others, from men who wish to represent American houses. Without assuming any responsibility for these concerns, we publish a summary of the foreign letters of inquiry from week to week.]

Heavy Hardware and Specialties.

A. M. Marus, Exclusive P. O. Box 2514, Havana, Cuba.—Desires representation as manufacturers agent for heavy hardware and specialties in Cuba, Mexico and Colombia. Correspondence requested.

Wants Direct Agencies.

John H. Kerr, San Juan, Porto Rico—I am interested in securing direct representation for Porto Rico for rice, flour, codfish, canned salmon, canned goods, provisions, lard, beans, soaps, paper, lumber, cement, composition roofing, galvanized iron sheets and toilet preparations. I am a native of Baltimore, Md., 42 years of age, and have resided in Porto Rico nearly 15 years.

Electrical Articles and Dry Goods.

Julio Ramirez, Johns & Co., Medellin, Colombia.—This firm is engaged in the introduction of electrical articles in this country. We also have special interest in representing American export firms for all kinds of articles, especially in wool, cotton and silk stuffs (dry goods) for gentlemen, ladies and children. Present conditions in this country are remarkably improving, owing to the high price of coffee and the expected good harvest. We are established in our business since eight years. We represent the Warner Bros. Co., Inc., 347 Madison Ave., at 45th St. New York City; William Schimper & Co., 322 Ferry St., Hoboken, N. J.; and Story & Clark Piano Co., 315-317 S. Wabash Ave., Chicago, Ill.

Construction Department

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained. Further facts about any incomplete or incorrect item reported in these columns are always appreciated.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Bridges, Culverts and Viaducts.

Fla., Jacksonville—Duval County Comms. will build 2 bridges. For full details see Road and Street Construction.

Fla., Miami Beach, Sta. Miami—For full details see Land Development.

Fla., Quay—St. Lucie County Comms. will receive bids until Apr. 10 to build bridge across Indian River at Quay. (Lately noted.)

Ga., Columbus—Muscogee County Comms. plan expending \$80,000 to construct 8 steel and concrete bridges, to replace wooden bridges, on following roads: On Goat Rock road, over Heifer-horn Creek, 38-ft. span in center, 4 piers; on Talbotton road, 65-ft. long, 42-ft. solid arch; on Buena Vista road, over Upatoi Creek, five 42-ft. spans; Cusseta road, over Upatoi Creek, ten 40-ft. spans, (state aid); Glade road, over Bull Creek, 18-ft. wide bridge; Pearce-Chappell road, over Flat Rock Creek; Buena Vista road, strengthen steel bridge over Bull Creek, and Werocoba Creek bridge.

Louisiana — State Highway Comsn., will build 10 bridges. For proposal details see Mch. Wanted—Bridge Construction.

La., Colfax—Louisiana Highway Comsn., will build 2 bridges. For proposal details see Mch. Wanted—Bridge Construction.

Md., Middletown—State Roads Comsn., John N. Mackall, Chmn., 601 Garrett Bldg., plans building 120-ft. concrete span across Catocin Creek, near Middletown, Frederick County; will widen road.

Miss., Greenwood—Leflore County Board of Supvrs., plans building bridge across Yazoo River, at Greenwood; will vote March 31, on \$75,000 bonds.

Miss., Jackson—For proposal details see Mch. Wanted—Bridge Construction.

Miss., Macon—Noxubee County, Bd. of Supervisors, will build 2 bridges. For proposal details see Mch. Wanted—Bridge Construction.

Miss., Quitman—State Highway Dept., Jackson, will build 2 bridges. For proposal details see Mch. Wanted—Bridge Construction.

Missouri—State Highway Dept., Jefferson City, Mo., will build 15 bridges. For proposal details see Mch. Wanted—Bridge Construction.

Missouri—State Highway Dept., Jefferson City, Mo., will build 38 bridges. For proposal details see Mch. Wanted—Bridge Construction.

Mo., Mexico—Audrain County Court, let contract to Pan-American Bridge Co., of Indiana, at \$10,000 to build 10 steel and concrete bridges in various parts of County.

N. C., Charlotte—Joseph Firth, City Mgr., received low bids from Boyd, Higgons & Goforth, at \$5000 to construct concrete culverts, replace wooden bridges, and lay concrete surfaces on other bridges. (Lately noted.)

N. C., Danbury—Stokes County Highway Comsn., will build 4 bridges. For proposal details see Mch. Wanted—Bridge Construction.

S. C., Florence—For full details see Road and Street Construction.

Tex., Eldorado—For full details see Road and Street Construction.

Tex., Sweetwater—Nolan County Comms. plan building bridge 3 mi. east of Sweetwater, on Bankhead Highway, \$3500; State Highway Comsn., granted \$3500. Address A. S. Mauzey, County Judge.

Virginia — State Highway Comsn., Richmond, Va., will build 2 bridges. For proposal details see Mch. Wanted—Road and Bridge Construction.

Canning and Packing Plants.

Fla., Avon Park—Avon Canning Co., incorporated with \$250,000 capital (Affiliated with Florida Citrus Exchange), will construct and operate grape fruit canning plant.

Md., Baltimore—Kurries' Packing Co., Inc., 29 Taylor St., increased capital from \$100,000 to \$150,000.

Tenn., Harriman—Harriman Cannery, A. K. Davis, Secy., interested in establishment of canning factory. (See Mch. Wanted—Canning Mch.)

Tex., San Antonio—Co-Operative Packing & Provision Co., will construct canning plant on 7 acre tract; plant will consist of abattoir, sausage rooms, cold storage facilities, etc.; Chicago Packing House Construction Co., Contrs.

Clayworking Plants.

Tenn., Rockwood—A. E. Venable will install plant with daily capacity of 50,000 bricks.

Coal Mines and Coke Ovens.

Ky., Providence—Young & Morgan Coal Co., capital \$12,000, inceptd. by Edgar M. Young, James E. Morgan and others.

Mo., Guthrie—Capital City Coal Co., organized with G. J. Franken, Prest.; R. H. Mueller, Secy.-Treas., Jefferson City, Mo.; has under development new bituminous coal mine.

Okl., Oklahoma City—Oklahoma Fuel & Lumber Co., capital \$25,000, inceptd. by W. R. Clark, J. R. Linn and W. E. Benjamin.

Tenn., Pulaski—Uniontown Coal Co., capital \$500,000, inceptd. by J. H. Jerry and Gray Ragsdale.

Va., Pulaski — High Carbon Coal Corp. (lately noted inceptd., \$150,000) organized with Clyde E. Smith, Prest.-Mgr.; F. W. Miller, Secy.-Treas.; will develop 915 acres coal land; bids open April 15 on mining mch.; Roberts Bunte, V. P. and Const. Engr. (See Mch. Wanted—Mining Machinery; Cars (Mine)).

W. Va., Fairmont — Clarksburg Big Vein Coal Co., capital \$100,000, inceptd. by John B.

Kelley, C. L. Billingsley, James K. Killeen.

W. Va., Fairmont—Standard Coal Co., capital \$1,700,000, inceptd. by M. W. Ogden, and C. F. Crane, both Fairmont; Harry E. Davidson, Clarksburg.

W. Va., Morgantown—Bowman Fuel Co., capital \$150,000, inceptd. by Frank L. Bowman, Fred Tropf and others.

W. Va., Welch—Paul Hardy and associates, will develop coal mines in western part of McDowell county, contemplated daily output of 2500 tons; will install coal loaders with daily output of 250 tons; coal to be cut, loaded and dumped by machinery; is erecting miners houses, etc.

Concrete and Cement Plants.

Tenn., Johnson City — Watauga Cement Products Corp., J. W. Warren, Prest.-Mgr. has under construction improvements, doubling capacity of plant.

Cotton Compresses and Gins.

Tex., Lyford—John Selman of Kingsville, interested in erection of cotton gin.

Cottonseed-Oil Mills.

Miss., Greenwood—Greenwood Compress & Storage Co., Dalton McBee, Secy.-Treas. is receiving bids for erection of cotton compress and warehouse covering 150,000 sq. ft. floor space; brick and frame construction for warehouse; F. R. McGeoy, Archt. Lately noted. (See Mch. Wanted—Lumber; Brick; Water Tower and Tank; Sprinkler System.)

Drainage Systems.

Ala., Fayette — For proposal details see Mch. Wanted—Clearing of Right-of-Way

Fla., Lakeland—Buchanan & Son of Tampa, Fla. have contract for drainage project of the Lake Parker Drainage Dist. consisting of $\frac{3}{4}$ mi. ditch from Lake Bonney to Lake Parker and one $\frac{1}{2}$ mi. from Lake Parker to Saddle Creek; plans include concrete control gates; estimated cost \$25,000; G. B. and H. D. Mendenhall, Ch. Engrs.

Tenn., Selmer—McNairy County Comms., W. R. Nickles, Chmn., has established the Middle Cypress Drainage Dist. No. 14, will construct 6-9/10 mi. canal, reclaiming about 867 acres land.

Electric Light and Power Plants

Ala., Centerville—Alabama Power Co. will purchase and operate properties of Centerville Light & Power Co.

Fla., Marianna—Marianna Light & Power Co., capital \$250,000, inceptd. with G. M. Thomas, Prest.; F. M. Golson, Secy.-Treas.

Fla., Miami—For full details see Land Developments.

La., De Quincy—For full details see Water Works.

Miss., Jackson — Board of Supervisors granted franchise for extension of electric

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

current from Jackson to Clinton.

N. C., Lakeview—Sandhill Power Co. is installing 500 K. W. steam auxiliary and will develop more hydro-electric power in about 12 months.

N. C., Lexington—City let contract for extension of white way in business section. Address Mayor Leonard.

N. C., Mocksville—City contemplates installing electric lighting system. Address The Mayor.

N. C., Westfield—T. T. Joyee is constructing electric light plant and roller mill.

Okla., Oklahoma City—Wetherbee Electric Co., increased capital from \$7000 to \$12,500.

S. C., Florence—City let the following contract for installation of white way system: contract for construction let to Mann Electric Co., Columbia; Fortner Electric Co. of Florence, contract for installation; Palmer & Conrad for concrete bases for standards; cost about \$10,000. (Lately noted.)

Tenn., Chattanooga — Tennessee Electric Power Co. will expend \$1,800,000 for water power plant extension, developing 15,000 K. W. and \$1,225,000 for construction new steam plant, 20,000 K. W.

Tex., Dallas—For full details see Textile Mills.

Tex., Perryton—City planning electric light plant, construction; \$35,000 bonds available. Address The Mayor.

Tex., Vernon—Vernon Electric & Ice Co., J. G. Rossman, Mgr. is constructing electric power plant at cost of \$100,000.

Tex., Wills Point—For full details see Road and Street Construction.

Va., Fredericksburg—Rappahannock Electric Light & Power Co., Inc., will expend \$20,000 in development of 300 H. P.

Fertilizer Plants.

Ark., Fort Smith—Fort Smith Cotton Oil Co., North First and G Sts. will construct \$20,000 fertilizer plant.

La., Lake Charles—Westlake Chemical Co., capital \$100,000, inceptd. with Rudolph Krause, Prest.; L. H. Moss, Secy.

S. C., Charleston—Plenge Chemical Co., incorporated with J. V. Murphy, Prest.; Paul Wires, Secy.-Treas.

Tex., Houston—Uradia Chemical Corp., incorporated by J. R. Hall, R. A. Barrett, O. D. Thomas.

Flour, Feed and Meal Mills.

N. C., Bakersville—Toecane Milling Co., capital \$25,000, inceptd. by R. C. Teague, W. F. Hughes and John C. McBee.

N. C., Stony Point—Stony Point Milling Co., capital \$50,000, inceptd. by F. B. Hines, J. S. Clodfelter and J. W. Keever.

N. C., Westfield—For full details see Electric Light and Power Plants.

Tenn., Memphis — Dairyman Milling Co., 1248 James St., lately noted inceptd. with \$75,000 capital organized with W. M. Price, Prest.; G. W. Haynes, Secy.; has leased G. E. Patterson plant will operate for mixed feeds.

Tex., El Paso—Border Milling Co., capital \$10,000, inceptd. by A. T., N. F. and Julia Freije.

Foundry and Machine Plants.

Fla., Jacksonville — Plows, etc. — Little Giant Mfg. Co., inceptd. with Ferdinand T. Loest, Prest.; G. W. Miller, Secy.-Treas.

Fla., Tampa—American Welding & Tank Co., capital \$50,000, inceptd. with J. C. Beckley, Prest.; Walter M. Beckley, Secy.-Treas.

Ky., Newport — Newport Furnace Corp., capital \$100,000, chartered by Lawrence Riedinger, A. J. Chamberlain and L. W. Scott.

Ky., Newport—Roman-McLaughlin Machine Co., capital \$25,000, inceptd. by John R. and V. D. Roman, A. A. McLaughlin.

Md., Baltimore—Baltimore Type Foundry Co., 1 N. Holliday St., capital \$450,000, incorporated by James T. Carter, Joseph L. McAllister and Nat B. Kwen; mfrs. printers supplies, etc.

Tex., Austin—Tips Engine Works, Ralph C. Goeth, Prest., increased capital from \$40,000 to \$120,000; change name from Tips Foundry & Machine Co.

Tex., Beaumont—Beaumont Implement Co., increased capital from \$100,000 to \$160,000.

Va., Graham—Graham Furnace Corp., W. B. Lindsay, Prest.; Eli Bean, Secy.; main office, Winchester, Ky. (lately noted increased capital to \$1,000,000) after first of June will be in market for spiegeleisen and ferro-manganese. (See Machinery Wanted—Ferro-manganese, etc.)

Va., Richmond—Progressive Machine Engineering Corp., capital \$15,000, chartered with Charles E. Johnson, Prest.; S. M. Hull, Secy.

Gas and Oil Enterprises.

Ala., Dothan—Columbia Intercoastal Oil Co. Inc., increased capital from \$35,000 to \$60,000.

Fla., St. Petersburg—For full details see Water Works.

Ky., Bowling Green—Park City Refining Co., increased capital to \$25,000.

La., Monroe—Zeiglin-Clarke Oil & Gas Co.,

capital \$150,000, inceptd. by G. W. Zeiglin, W. B. Clarke and Robt. M. Breard, Jr.

Okla., Ardmore—Prairie Pipe Line Co. will construct pipe line extension; 2½ ml. 8-in. and 4 ml. 6-in. will also enlarge pump station at Graham, increasing capacity to approx. 10,000 bbls.

Okla., Enid—T. T. Eason, Prest., Healdton Oil & Gas Co., interested in construction pipe line from Tonkawa oil fields to Bolene Refinery.

Okla., Ponca City—Higdon Oil Co., capital \$15,000, inceptd. by C. G., Z. B. and H. T. Higdon.

Okla., Tulsa—Loues Freidman Oil Co., increased capital from \$210,000 to \$500,000.

Okla., Tulsa—B. E. Walter Oil & Gas Co., capital \$2,000,000, inceptd. by B. E. Walter, G. A. Dye, M. P. Appleby.

Okla., Tulsa—Tempest Oil Co., capital \$10,000, inceptd. by N. E. Templeman, L. G. Owen and J. C. Farmer.

Tex., Beaumont—Humphreys Pure Oil Co., Wm. Paul Gage, V. P. will construct oil refinery to contain 26 process cracking units, together with specially designed devices and processes; company has recently acquired 150 acres in addition to original tract of 600 acres; will construct ten 50,000 bbl. tanks and numerous smaller ones; will install wireless stations.

Tex., Brownwood—Hellus Casinghead Co., Fort Worth, will install plant in North Brown county gas field for converting gas into gasoline; output 900 bbls. oil and 10,000 gals. gasoline; cost \$250,000.

Tex., Corpus Christi—City voted \$350,000 bonds for installation of gas plant and laying conduits in city. P. G. Lovenskiold, Mayor.

Tex., Dallas—For full details see Textile Mills.

Tex., Dallas—Dallas Refining Co., capital \$175,000, inceptd. by O. F. Kullenberg and others; will establish 1000 bbl. capacity plant.

Tex., Dallas—National Refining Co., inceptd. by P. R. Russell, S. Walker, E. L. Bryon.

Tex., Electra—Griswold Oil Co. will construct refinery with daily capacity of 2500 gals. gasoline; cost approx. \$500,000.

Tex., El Paso—Rio Grande Oil Co., increased capital from \$750,000 to \$1,500,000.

Tex., Fort Worth—Herbert Oil Co., 359 Majestic Bldg., will expend about \$45,000 in equipment; all oil field equipment, more or less portable. (See Mch. Wanted—Engines (Gas and Oil).)

Tex., Gonzales—Barrow Oil Co., capital \$25,000, inceptd. by W. T. Dunning, J. C. Whitting and M. L. Barrow.

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MANUFACTURERS RECORD

BALTIMORE, MD.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Laredo—Ross Segunda Oil Co., capital \$150,000, inceptd. by J. F. Ross, W. C. Bob, T. C. Mann.

Tex., Lufkin—Champion Oil Co., capital \$50,000, inceptd. by A. E. Sweetland, J. B. Moore, J. E. Wilson.

Tex., Mirando City—O. W. Killam, Laredo, Tex. will incorporate company to construct plant at cost of \$200,000; install refinery equipment; material purchased.

W. Va., Martinsburg—Martinsburg Heat & Light Co. will construct number of main extensions during 1923, to include greater portion of Rosemont section, Winchester Ave., etc.

Ice and Cold-Storage Plants.

Miss., Brookhaven — Brookhaven Ice & Cream Co., plans establishing ice plant, leased building on W. Estell St.

Mo., Joplin—Ice Delivery Co., 526 Virginia Ave., capital \$30,000, organized with Oliver T. Jones, Prest., F. M. Evans, Secy.-Treas.; concern was effected through merger of ice distributing equipments of the James-Redell Ice & Fuel Co., the Consolidated Ice, Fuel and Mercantile Consolidated Co.

S. C., Laurens—Laurens Ice & Cold Storage Co., Inc., Chas. F. Fleming, Box 145, will erect 46x96-ft. ordinary building, approx. cost \$4000; construction by day labor; let contract for \$12,000 ice machine and \$4500 cold storage equipment; daily capacity 25 tons; R. E. Sadler, Archt., 1018 Realty Bldg., Charlotte, N. C. (Lately noted.)

Tex., Belton—Belton Ice & Refrigerating Co., Harry Allen, Secy.-Mgr., let contract to Karnes & Birdwell to erect 64x88-ft. fireproof building; \$10,000; install ice manufacturing mch. \$10,000. (Lately noted burned.)

W. Va., Welch—Southern Refrigerator Co., main office, Johnson City, Tenn., H. W. Johnson, local mgr., Welch; let contract to install 35 ton raw water ice making mch. (Lately noted.)

Irrigation.

Tex., San Saba—San Saba County Commrs. contemplate creating irrigation district to embrace 40,000 acres of land in valley of San Saba river; plans include construction of dam, 100 ft. high, 1300 ft. long, forming storage reservoir of 140,000 acre-ft. capacity; estimated cost \$2,000,000.

Land Developments.

Ala., Birmingham—Central Park Highland Land Co., capital \$10,000, inceptd. with C. J. Donald, Prest.; J. L. Hardin, Secy.-Treas.

Ala., Birmingham—Rock Creek Land Co., capital \$17,000, organized with A. J. Robins, Prest.; Ethel M. Ware, Secy.

Fla., Fort Myers—Seminole Park Corp., capital \$125,000, inceptd. with Charles A. Stadler, Prest., Treas. and others.

Fla., Fort Myers—Central Heights Corp., capital \$200,000, chartered with Charles Stadler, Prest.-Treas.; Josephine Stadler, Secy.

Fla., Jacksonville — Keystone Investment Co., capital \$20,000, inceptd. with J. G. Permenter, Prest.; D. H. Wadsworth, Secy.-Treas.

Fla., Jacksonville—Regal Land Co., inceptd. with Sidley Emanuel, V. P.; Georgia E. Huger, Secy.

Fla., Kissimmee — Jewell Citrus Development, capital \$50,000, inceptd. with Wm. H. Overholtzer, Prest. and Treas.

Fla., Lakeland—Greater Lake and Development Co., capital \$100,000, inceptd. with Edwin Spencer; C. W. Rainey, Secy.

Fla., Lakeland—Greater Lakeland Development Co. will develop 337 acres near city

limits for subdivision; will construct park, paved streets, etc.

Fla., Miami—Marion Investment Co., capital \$10,000, inceptd. with E. L. Miller, Prest.; Ben P. Richards, Secy.-Treas.

Fla., Miami—Bechard & Hansen, Inc., capital \$100,000, inceptd. with P. B. Bechard, Prest.; C. T. Hansen, Secy.

Fla., Miami—Miami-Hialeah Holding Co., capital \$20,000, inceptd. with Mark H. German, Prest.; Wm. Harrison, Secy.-Treas.

Fla., Miami—Atlantic Realty Co., capital \$10,000, inceptd. with C. A. McMichle, Prest.; M. H. Thomas, Secy. and Gen. Mgr.

Fla., Miami—Florida Cities Finance Co., M. C. Tibbetts, Prest.; Edgar C. Linn, V. P., Brookline, Mass.; capital \$1,000,000; will develop about 1000 acres in Dade County, "Fulford-by-the-Sea;" will expend about \$750,000 covering 3 years development work consisting of paved roads, curbs, cement walks, civic building construction; installing electric lights, water works, storm water sewer system, septic tanks; will open mch. proposals in late summer; John T. Sherwood, Archt., Fort Pierce, Fla.; Norman W. Parlee, Miami, Supt. (Lately noted.)

Fla., Miami — Walsh Citrus Co., capital \$200,000, inceptd. by Charles A. Walsh of Davie, Charles Fairbanks of Terre Haute, Ind. Tom Stillwell of Anderson, Ind., have 500 acres of Everglade land and will develop in citrus grove; initial development 200 acres.

Fla., Miami Beach, Sta. Miami—Bay Shore Co., Fred Hoerger, Supt. will expend about \$1,000,000 this summer in improvement work in Sunset Lake and Nautilus subdivision; will construct fill around Surprise Lake, contract let to Clark Dredging Co., and will include 3,000,000 cu. yds.; Bunnell & Cail, and Biscayne Engineering Co. have contract for constructing 10 mi. roads and 6 mi. of 20 ft. streets, paved and oiled; roads around polo grounds will comprise about 5000 ft. and cost \$7000; The Conkling Co. has contract for wooden bulkhead work and Bunnell & Cail for concrete; J. J. Conklin has contract for construction of bridges connecting the two islands.

Fla., Miami Beach, Sta. Miami — Miami Beach Golf Club, Wm. Wallace, Chmn., will expend \$500,000 on construction of golf course to cover 150 acres.

Fla., Ocala—Silver Springs Estates, capital \$15,000, inceptd. with John A. Manley, Prest.; E. H. Martin, Secy.

Fla., Okahumpka—Square Deal Citrus Co., inceptd. with I. R. Edgar, Prest.; H. E. Price, Secy.-Treas.

Fla., Okeechobee—W. J. Conners of Fort Myers and associates have acquired holdings of Okeechobee Co., Model Land Co. and Consolidated Land Co., and 50,000 acres adjoining and will develop.

Fla., Ormond Beach—Golf Realty Co., capital \$50,000, inceptd. with Geo. N. Rigby, Prest.; Maud L. Rigby, Secy.-Treas.

Fla., Palm Beach—Young Kinleyside of Long Beach, N. Y., acquired tract of 12,000 acres in Palm Beach county and will develop for subdivision; W. A. Hearn, local representative.

Fla., Sanford—Sanford Coronado Beach Co., capital \$20,000, inceptd. with Edward Higgins, Prest.; Ralph B. Whight, Secy.-Treas.

Fla., St. Petersburg—Franklin Co., inceptd. with R. G. Franklin, Prest.; B. J. Franklin, Secy.-Treas.

Fla., St. Petersburg—N. J. Upham, and C. Perry Snell, will develop about 3000 acres of land having 20 mi. of water front for town site and sub division; construct 18-hole golf course, etc.

Fla., St. Petersburg—C. Perry Snell, has 27 hole golf course on Coffee Pot Bayou, will build additional 9 holes, also improve subdivision of 300 lots. (See Mch. Wanted—Brick (Paving); Pipe (Sewer).)

Fla., Sebring — Istokpoga Farms, capital \$200,000, inceptd. with E. J. Etheredge, Prest.; W. H. Hylton, Secy.-Treas.

Fla., Tampa—Chas. P. Glover, E. L. Lamb and Hiram McElroy have purchased 200 acres of land; will incorporate company to develop for homesite.

Ga., Atlanta—F. A. Ames of Owensboro, Ky. let contract to B. F. Meeks & Co., Atlanta, Ga., for developing subdivision of 30 to 40 acres on Virginia Ave., and Highland Ave.; O. F. Kauffman, Civil Engr., Candler Bldg., Atlanta. (Lately noted.)

Ky., Ashland—B. and P. Realty Co., capital \$50,000, inceptd. by Allen H. Points, E. H. Brother, N. R. Coburn.

Ky., Ashland—George I. Neal has purchased Clyffside Park and will organize company and develop.

Ky., Ashland—Oak Grove Land Co., capital \$24,000, inceptd. by M. J. Mantz, C. F. Vldt and others.

Ky., Ashland—Harry M. Huddleston will develop subdivision.

Ky., Barbourville—Barbourville Realty Co., capital \$14,000, inceptd. J. G. Tye, T. F. and G. E. Faulkner.

Ky., Louisville—S. C. S. Realty Co., capital \$50,000, inceptd. by John C. Schwartz, Frank L. Clifford, Robt. A. Scott.

La., Baton Rouge—Glenmore Development Co., Inc., capital \$36,000, inceptd. with Don B. Hearlin, Prest.; Charles Roseman, Secy.-Treas.

Md., Baltimore—Allied Construction Co., 449 Equitable Bldg., inceptd. by Harry E. Rosser, Morris S. and Joseph Meyerhoff.

Md., Baltimore—Parran Heights, Inc., 1506 E. Monument St., capital \$50,000, inceptd. by Mamie, George R. and Joseph Parren.

Md., Baltimore—Fiscal Service, Inc., 2 E. Lexington St., chartered by Arthur M. Rector, George Walker and Thos. E. Mason.

Mo., St. Louis—Hauer-Lustkindl Realty Co., capital \$10,000, inceptd. by J. J. Hauer, W. R. Lustkindl and R. O. Rumer.

N. C., Charlotte—Citizens' Improvement Co., 14½ S. Church St., capital \$150,000, incorporated by R. A. Brown, B. A. Bedenbough, Beulah M. Brown.

N. C., Greensboro—Greensboro Realty & Lumber Co., capital \$100,000, inceptd. by J. M. Stout, S. J. and Ida L. Marley.

N. C., Raleigh—Standard Realty & Construction Co., capital \$100,000, inceptd. by N. C. Heines, J. E. Beaman, Frank Allen.

Okla., Henryetta—City, James Hawes, Mayor, plans developing park of 22 acres.

Okla., Oklahoma City—Riverside Farms, capital \$12,000, inceptd. by Sam J. Trave, W. M. Maxey, P. H. Mullins.

Tex., San Antonio—Southwest Investment Co., capital \$50,000, inceptd. by C. A. Davies, W. T. Garvin, H. A. Rogers.

Va., Norfolk—Cornland Corp., capital \$50,000, chartered with H. W. West, Prest., Hickory, Va.; Reginald Page, Secy., Norfolk.

Va., Richmond — Roger Gregory Realty Corp., capital \$50,000, inceptd. with T. G. Burch, Prest.; Geo. M. Woods, Secy.

Va., Richmond—The Federal Corp., capital \$100,000, chartered with Charles T. Norman, Prest.; C. R. Cunningham, Secy.

Va., Roanoke—Mount Vernon Land Co., capital \$25,000, inceptd. with John W. Wright, Prest.; Thomas E. Wright, Secy.

W. Va., Charleston—Daverton Land Co., capital \$25,000, inceptd. by L. W. Hamilton, H. G. Davis, C. C. Redden.

W. Va., Charleston—Board Street Realty Co., capital \$100,000, inceptd. Wilbur Stump, C. F. Zimmerman, L. E. Potet.

W. Va., Man — Man Realty Co., capital \$45,000, inceptd. by Sigmond Kohn, Harry Rosen and others.

Lumber Manufacturing.

Ala., Alexandria—T. B. Cohen, Jr., Gadsden, Ala., will install saw mill, purchased timber tract.

Ala., Furman—C. H. Robinson and John S. Williams will erect sawmill, purchased timber lands.

Ala., Greenville—W. T. Smith Lumber Co., of Chapman, Ala., plans establishing branch mill.

Ala., Hayden—H. C. Blackwood, of Cleveland, Ala., reported to erect \$30,000 heading mill; also one near Nectar.

Fla., Daytona—Malby-Conrad Lumber Co., Inc., R. J. Malby, Prest.-Mgr. will rebuild plant, corrugated iron, wood frame and concrete foundation; construction probably by own forces. (Lately noted burned.)

Fla., DeLand — McLin-Coachman Co., of Jacksonville, Fla., purchased 4800 acres cypress timber in the Haw Creek and Disston sections; will develop; build spur track from Atlanta Coast Line Ry. to the newly acquired property.

Fla., Pensacola—Keyser Lumber Co., capital \$10,000, inceptd. with R. L. Campbell Keyser, Prest.; Guy V. Harvey, Secy.-Treas.

Ky., Ashland—Eastern Kentucky Lumber Co., Herman Queen, Mgr., Louisa, Ky., will erect interior lumber plant.

La., Lake Charles—Powell Lumber Co. increased capital from \$125,000 to \$750,000.

Md., Hagerstown—Sager-Redford Lumber Co., Inc., capital \$50,000, inceptd. by F. O. D. Redford, Frank S. and Louis A. Segar.

Miss., Jackson—H. L. Rouff, Inc., capital \$25,000, inceptd. by H. L. and R. W. Rouff, L. S. Stubbins.

N. C., Fayetteville—DeVane-Hall Lumber Co., capital \$100,000, inceptd. by J. M. DeVane, Fayetteville; George H. Hall, Jr., Elizabethtown, N. C. and others.

Okla., Tulsa—Brown-Caspary Lumber Co., capital \$15,000, inceptd. by E. T. and D. T. Caspary, both Tulsa; C. W. Brown, Pawhuska, Okla.

S. C., Bucksport—Huntley-Richardson Co., organized with B. F. Huntley, Prest.; Winston-Salem, N. C.; Donald V. Richardson, Secy.-Treas., Bucksport; has acquired 8000 acres timber land with saw mill and plant located on Pee Dee and Waccamaw rivers, between Conway and Georgetown; will remodel mill and develop.

Va., Roanoke—Acorn Lumber Co., capital \$25,000, inceptd. with G. M. Huffman, Prest., Roanoke; W. H. Gasteiger, Secy., Flinn, Va.

Metal-Working Plants.

D. C., Washington—Washington Bearings Corp., capital \$50,000, inceptd. by Lonnie V. Robinson, Lewis H. and Francis C. Phelps.

Miss., Hattiesburg—Illumno Sign Co., increased capital from \$50,000 to \$100,000; will establish plant for mfr. of illuminated signs, plans include model studio and designing rooms.

Tenn., Memphis—U. S. Wood Treating Co., capital \$200,000, inceptd. by J. M. Green, T. F. Griffith, W. R. English; mfr. machines for treating wood and lumber.

Tex., Dallas—Standard Spring and Axle

Co., capital \$30,000, inceptd. by L. K. Weaver, T. P. Steger, J. W. Hall.

Tex., San Antonio—Gulf States Simplex Rim Co., capital \$60,000, organized by E. M. Crane, Detroit, Mich., and others; to convert automobile rims into collapsible rims.

Mining.

Md., Hagerstown—Elestano Mining Co., increased capital by \$25,000. (Supersedes recent item.)

Md., Hancock—Maryland Glass Sand Co., Inc., R. J. Funkhouser, Prest., main office Hagerstown, Md. has under development sand pits with daily capacity of 600 tons; equipment all purchased; E. H. Nichols, plant Engr. (Lately noted increased capital to \$250,000.)

Miss., Golden—Golden Gravel Co., W. G. Sessions, Prest.-Gen.-Mgr. has under construction washed and screened sand and gravel plant; approx. cost \$100,000; daily capacity 1000 tons.

S. C., Pacolet—Spartanburg Quarries Corp., B. T. Earle, Prest., has 275 acres land, 50 per cent of it stone; daily output 15 to 20 cars; mchy. all purchased. (Lately noted.)

Va., Roanoke—Rockydale Stone Co., Gordon B. Pace, Prest., 402 Mountain Trust Bldg.; has 10 acres under development, daily output from 5000 to 700 tons stone; equipment purchased; Palmer St. Claire, Const. Engr., First National Bank Bldg. (Lately noted inceptd., capital \$75,000.)

Miscellaneous Construction.

Arkansas—Levees—Gerard B. Lambert Co., St. Louis, Mo., let contract to W. E. Callahan Construction Co., Dallas, Tex., at \$250,000, to construct levee around Lambrook plantation in southeast Arkansas on Mississippi river.

Fla., Miami Beach, Sta. Miami—Bulkhead —For full details See Land Developments.

Fla., St. Petersburg—Canals—Snell, Elliott & Upham, propose connecting Coffee Pot Bayou, Smack's Bayou and Pappy's Bayou with several inland lakes with system of canals and lagoons; plans establishing boat livery. (See Mchy. Wanted—Canoes, etc.)

N. C., Wilmington—Channel — Oscar O. Kuentz, Capt., Corps of Engrs., U. S. Engr. Office, 308 Custom House, work of deepening channel of Cape Fear river across the bar will probably be done by Government and not by contract; the present project depth is 26-ft. and width of 300 ft., is not likely to be done this year. (Lately noted.)

Tex., Fort Worth—Elevator—Fort Worth Elevator Co., Jule G. Smith, Prest. has begun construction of fireproof rapid handling 1-750,000 bu. grain elevator and storage tank, extending from Biddison St. to Waggoman St. in South Fort Worth; plans consist of head house or mchy. building 54x72 ft., 192 ft. in height, together with 36 concrete tanks, 23 ft. dia., 100 ft. high, with 22 interstices for bulkhead; mchy. house will be equipped with 25,000 bu. straight hopper scales, each under 2500 bu. garners; 6 main elevator legs with 30-in. lifting belts of 10,000 bu. hourly capacity; 2 Carter disc separators and one 1500 bu. per hr. clipper and scouring machine with lining and smutting attachment; 2 Richardsons automatic sacking scales; one 3 bu. capacity and one 6 bu. capacity of six sacks per min.; electric power furnished by Fort Worth Power & Light Co.; elevator will be served by three railroad tracks, each ¼ mi. in length; with loading capacity of 2 cars and unloading capacity of 4 cars, simultaneously.

Va., Blacksburg—For proposal details see Mchy. Wanted—Heating Plant.

W. Va., Logan—Incinerator—Clity, J. A. Hogg, Mayor, voted \$20,000 bonds for construction incinerator and fire station. (Lately noted.)

Miscellaneous Enterprises.

Ala., Alabama City, Route 1.—Walnut Hill Poultry Farm, F. T. Agricola, Prest., Gadsden, Ala. will expend about \$10,000 on erection of several buildings, approx. 18 x 125-ft., frame with galvanized sides and roof; construction by day labor; daily capacity 100 doz. eggs and 1000 baby chicks; install grist mill, band saw, water pump, feed mill, green food cutter, etc. Lately noted. (See Mchy. Wanted—Tank (Cypress); Cutter (Green Food); Pump (Water); Pipe.)

Ala., Birmingham—American Laundry Co., Max Stern, Prest., 1720 2nd Ave. will erect 100 x 140-ft. mill construction building, estimated cost \$57,500; bids open about April 1; install laundry mchy., cost about \$20,000. D. B. Wheelock, Archt., Steiner Bldg. Supersedes recent item. (See Mchy. Wanted—Laundry Machinery.)

Ala., Birmingham—U-Save-It Stores Corp., chartered by J. H. Brown, Harry Kerlin and W. L. Shumate, Jr.

Ala., Selma—Slaughterhouse—Fred Wagner has contract to erect \$10,000 slaughter house, brick and concrete construction.

Ark., Little Rock—Democrat Printing & Lithographing Co., H. G. Mitchell, Prest., let contract to Man & McCain at \$610,000 to erect 3 story, 140-ft. square building, corner 2nd and Scott St.; steel and concrete construction.

D. C., Washington—Meridian Hill Studios Corp., capital \$100,000, inceptd. by Geo. Oakley Totten, Jr., Vicken Totten and T. Percy Myers.

D. C., Washington — Notes Amusement Corp., capital \$200,000, chartered by Marcus and William Notes, both Washington; D. C. Bryon, Chevy Chase, Md.

Fla., Jacksonville—Florida Linen & Towel Supply, capital \$25,000, inceptd. with Frank H. Heartless, Prest.-Treas.; F. Heartless, Secy.-Treas.

Fla., Miami—Hotel, etc.—Bayshore Corp., capital \$500,000, inceptd. with O. M. Fowler, Prest.; Thomas J. Pancoast, Secy.

Fla., Miami—Hotel Traymore-By-The-Sea, Inc., capital \$51,000, chartered with Barnett Greenberg, Prest.; Louis Shopiro, Secy.-Treas.

Fla., Miami Beach—Shamrock Hotel Co., capital \$500,000, inceptd. with Columbus H. Boyles, Prest.; Nan Boyles, Secy.-Treas.

Fla., Sanford—Valdez Hotel Co., capital \$40,000, inceptd. with L. A. Braumley, Prest.; Alfred Foster, Secy.-Treas.

Ga., Macon—Macon Plumbing, & Heating Co., inceptd. by E. Julian Peacock, A. B. Lee, and others.

Ky., Covington—Wadsworth Electric Sales Corp., capital \$150,000, inceptd. by Lee Skipworth, George B. Wadsworth and Walter Schmidt.

La., Lake Charles—Live Stock—Sheumaker-Carter Co., Inc., capital \$50,000, inceptd. by Charles M. Sheumaker, Prest., Fenton, La.; John R. Green, Secy.-Treas., Lake Charles; stock raising and agricultural.

Md., Catonsville, P. O. Baltimore—Plumbing—Rappanier Bros., Inc., capital \$10,000, inceptd. by Edwin W., Frank R. and Margaret Rappanier.

Md., Baltimore—Sta., Curtis Bay—Atlantic Wrecking Co., foot of Beach St., (lately noted inceptd., capital \$100,000) organized with Victor M. Jarrett, Prest.-Mgr.; Henry J. Sullivan, Secy.-Treas.; will expend \$20,000

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on preparing site to dismantle ships; construction work by own forces; install saw mills, locomotive cranes, derricks and shears, majority of equipment installed.

Miss., Columbus—Blue Streak Bus Line, inceptd. by J. R. Manser, I. Winston and others.

Mo., Kansas City—Stock Yards Hotel Co., capital \$15,000, inceptd. by Abe Cohn, J. Halpern, Charles Kabaker.

Mo., Kansas City—Economy Laboratories Co., capital \$10,000, inceptd. by R. S. Brennan, F. J. and J. F. Deady.

Mo., St. Louis—Laundry—M. Bass and Co., inceptd. by M. O. B. and H. B. Bass.

Mo., St. Louis—Brantley Printing Co., capital \$15,000, inceptd. by B. B. Brantley, E. Groh, A. A. Groetsch.

N. C., Aurora—Aurora Hardware Co., capital \$25,000, inceptd. by L. D. Midyette, D. E. and C. T. Lewis.

N. C., Bostic—Jones Publishing Co. of School of Music, capital \$25,000, inceptd. by T. B. Jones, E. R. Stewart and others.

N. C., Charlotte—General Equipment Co., capital \$50,000, inceptd. by N. J. Orr, C. W. and H. O. Allison.

N. C., Charlotte—Mowry Construction Co., capital \$50,000, inceptd. by A. S. Mowry, A. S. Foller, D. E. Henderson.

N. C., Greensboro—Piedmont Hardware Co., capital \$25,000, inceptd. by A. F. Brooks, J. A. Coble and others.

N. C., Kings Mountain—Sweet Potato Growers' Assn. contemplate increasing capacity of plant to 10,000 bu.

N. C., Morehead City—Atlantic Hotel Co., capital \$25,000, inceptd. by E. and D. G. Webb, both Morehead City; W. T. Anderson, Wilson, N. C.

N. C., Roanoke Rapids—Roanoke Construction Co., capital \$100,000, inceptd. by J. R. Myrick, W. K. Gray, G. S. Council.

N. C., Roxboro—Independent Warehouse Co., capital \$35,000, inceptd. by J. D. Perkins, W. F. Long and J. W. Chambers.

S. C., Easley—Piedmont Construction Co., capital \$10,000, inceptd. with R. G. Sheek, Prest-Treas., B. T. Day, V. P. and Secy.

Tenn., Knoxville—Humbard Construction Co., capital \$25,000, inceptd. by J. L. Floyd T. and J. G. Humbard.

Tenn., Memphis—Apartments—Park View Investment Co., capital \$100,000, inceptd. by Geo. D. Barnett, Jr., E. G. Lasar, Harry Niehaus.

Tenn., Memphis—Hardware—L. A. Thornton Seed & Grain Co., capital \$10,000, incorporated by A. G. Thornton, A. W. Whitaker, J. H. George.

Tex., Corpus Christi—Nueces Hardware & Implement Co., capital \$20,000, inceptd. by E. F. Flato, H. R. Jones and H. G. Heaney.

Tex., Dallas—Trio Laboratories, Inc., capital \$30,000, chartered by E. Eslica, B. V. Durham and E. A. Davis.

Tex., Dallas—Capitol Theater, Inc., capital \$100,000, inceptd. by T. T. Thompson, L. S. Gohlman, L. A. Goodwin.

Va., Dillwyn—Co-operate Tobacco Co., S. W. Sheford, Mgr. will erect folding and drying plant.

Va., Richmond—T. and E. Laundry Co., 931 W. Marshall St., let contract to E. L. Bass Bros., 708 Cambridge St. at \$24,500 to erect 50x142-ft. annex to building, brick construction, cement floors, slag roof.

Va., Roanoke—Wood-Noel Hardware Co., capital \$25,000, inceptd. with J. G. Wood, Prest.; Marguerite N. Noel, Secy.

W. Va., Glenville—Glenville Democrat, C. W. Marsh, Editor, will erect building on Court St., purchased site.

W. Va., Kistler—Service Transfer Co., capital \$25,000, inceptd. by Robert Smithson, J. S. Quinn and Calvin Messer.

W. Va., Logan—For full details see Miscellaneous Construction.

Miscellaneous Factories.

Ala., Birmingham—Woodward Battery Co., capital \$7500, inceptd. C. O. Woodward, F. E. Woodward, and others.

Ala., Jasper—Coca Cola—Crawford Johnson of Birmingham, and George Davis of Brookside, have acquired Coca Cola Bottling Works and will expend about \$7500 in new equipment.

Ala., Mobile—Automatic Soadmizer Co., capital \$50,000, inceptd. by W. H. Bryant, E. C. Moore, both Mobile, J. T. Gilmer, Jackson.

D. C., Washington—Star Rapid Shoe Repairing Co., capital \$100,000, inceptd. by James G. Hall, Joe and Samuel Sanders.

Fla., Miami—Alaska Frozen Fruit Co., 712 S. Miami Ave., James M. Latham, Prest.; Kenneth W. Pratt, Secy.; has plant with daily output 80 doz. frozen fruit dainty; will install cutting and dipping machines, cost about \$20,000. (Lately noted.)

Fla., Miami—Royal Palm Toilet Goods, capital \$25,000 inceptd. with James T. Gallagher, Prest.; Edith Y. Barber, Secy.

Fla., Panama City—Panama City Tar & Turpentine Co., capital \$10,000, inceptd. with A. M. Lewis, Prest.; R. L. Weekley, Secy-Treas.; James A. Black, Gen. Mgr.

Fla., St. Augustine—Bennett Shoe Co., capital \$10,000, inceptd. with D. Bennett, Prest.; Emanuel J. Masters, Secy-Treas.

Fla., Tampa—Orange Crush Bottling Co. of Florida is having plans prepared by M. Leo Elliott for brick and cement building at Morgan and Eunice Sts.; 60x100 ft.

Ga., Columbus—Columbus Coca Cola Bottling Co., capital \$500,000, inceptd. by Columbus Roberts, T. G. Rives, and others.

Ga., Savannah—Allen Engineering & Mfg. Co., capital \$151,000, inceptd. by C. Leonard Allen, Warren Butler, Joseph J. Wiegand.

Ky., Hazard—Mint Cola Bottling Co., increased capital from \$8000 to \$25,000.

Ky., Louisville—Industrial Paint Corp., increased capital to \$30,000.

Ky., Owensboro—Westerfield Candy Co., 207 E. 2nd St., organized with C. W. Westerfield, Prest.; Monarch L. Cox, Secy.; has plant with daily output 1000 lbs. hard candy. (Lately noted.)

La., Bastrop—Pulp and Paper—Mr. Brown, Active Vice-President of Yellow Pine Paper Mill Co., Orange, Tex. and associates have organized the H. L. Brown Paper Co., Inc., to construct 50 ton Kraft pulp and paper mill; brick and concrete; steel frame windows; cost about \$2,000,000; Geo. F. Hardy, 309 Broadway, New York, Engrs.; plans not completed; no contracts let.

La., Youngsville—Youngsville Sugar Co., Inc., Dr. R. O. Young, Gen. Mgr. will make extensions and improvements to plant; installing engines, motors, pumps, switchboards, etc. (See Mch. Wanted—Engines; Motors, etc.; Pumps; Switchboard, etc.; Valves (Blow Off); Pins and Rollers; Roller Chains, etc.)

Md., Baltimore—Nut Kist Korn Corp., 248 Equitable Bldg., capital \$50,000, inceptd. by Wm. C. Kelley, Samuel Goldstein, Latta Barclay.

Md., Baltimore—General Products Co., 306 S. Sharp St., capital \$100,000, inceptd. by

Roland R. Carmen, Robert W. Howeth and Oregon R. Benson, Jr.; mfrs. glassware, etc.

Md., Baltimore—General Wholesale Candy Co., 136 W. Fayette St., capital \$25,000, inceptd. by Benjamin I. Jaffe, Harry Cohen and others.

Md., Baltimore—Straw, Hemp, etc.—S. Rosenau & Co., Inc., 607 Calvert Bldg., capital \$350,000, inceptd. by Bernard L. Frankel, James J. O'Brien, Samuel H. McLaughlin.

Miss., Gulfport—Jersey Ice Cream Co. will install additional mch. for creamery.

Miss., Gulfport—Hollingsworth Drug Co., capital \$15,000, inceptd. by J. R. Manson, Jennie C. Lynd and others.

Mo., Kansas City—Golfers Supply Co., capital \$25,000, inceptd. by C. H. Minor, J. L. Ryer, and A. Lesperance.

Mo., St. Charles—International Shoe Co. let contract to Frank Bull and Herman Wietholter, of St. Charles for construction of brick plant; cost \$12,000. (Lately noted.)

Mo., St. Louis—Samuels & Sons Shoe Co., capital \$50,000, inceptd. by E. R., T. R. and J. G. Samuels.

Mo., St. Louis—Locust Candy Co., capital \$25,000, inceptd. by Rush James, J. V. Dunbar, W. L. Roos.

Mo., St. Louis—Paper, etc.—F. H. Glarner & Co., Inc., capital \$50,000, chartered F. H. Glarner, Sel Weber and others.

Mo., Webb City—Watson Food Products Co., Fairhope, Ala. will establish plant in Murray Bldg. for mfr. of meatless food products; later may install cannery.

Mo., Willow Springs—Willow Springs Creamery Co., increased capital from \$100,000 to \$200,000; will enlarge plant and install additional equipment.

N. C., Charlotte—Parfay Co., Inc., capital \$150,000, inceptd. by W. W. Blount, E. C. Stathart, T. J. Payne.

N. C., Durham—Dixie Clothing Co., capital \$25,000, inceptd. by D. T. Lunsford, J. L. Cozart, Warren Bishop.

N. C., Greensboro—Krahnke-Klothes, Inc., capital \$10,000, inceptd. by F. H. Krahnke, Jr., E. C. Huey, R. F. Cooper.

N. C., Winston Salem—Coca Cola Carbonating Co., capital \$100,000, inceptd. by J. P. Fearington, L. W. and W. O. Snider.

Okla., Oklahoma City—Diamond Dishwasher Co., capital \$100,000, inceptd. by G. Misch, J. A. Delgman and J. A. Frates, Jr.

Tenn., Knoxville—Tennessee Valley Creamery Co., Deaderick Ave. and Clinton St., capital \$25,000, inceptd. by Russell Cruze, Frank Calloway, C. E. Brehan.

Tenn., Memphis—Chickasaw Electrical Appliance Co., capital \$20,000, inceptd. by Edgar J. Jones, E. A. Passino, Rogers Stanley; mfrs. radio and electrical apparatus devices, etc.

Tenn., Memphis—Universal Products Co., capital \$25,000, inceptd. by F. K. Green, G. H. Loop, W. A. Greshaw; mfrs. pharmaceutical specialties.

Tex., Beaumont—Gulf Cigar & Tobacco Co., capital \$20,000, inceptd. by D. A. Levy, Charles Naman and others.

Tex., Dallas—The Austin Co., capital \$10,000, inceptd. by W. J. Austin, A. G. Oldfield, Adair Rembert.

Tex., Dallas—Overalls—Alex. Sanger will probably rebuild burned building at 908 Commerce St., occupied by Lone Star Overall Factory.

Tex., Dallas—West Disinfecting Co., capital \$10,000, inceptd. by M. B., I. J. and M. M. Marcuse.

Tex., Houston—Medicine—Vitalists Co.,

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

capital \$1,000,000, inceptd. by John H. Kirby, Joe H. Eagle, John S. Akin.

Tex., San Antonio—Acme Shirt and Overall Mfg. Co., capital \$15,000, inceptd. by E. G. Lowenthal, C. D. Mastin, Ed. Naeglin.

Va., Fieldale—Bruce-May Drug Co., capital \$15,000, inceptd. with S. B. May, Prest., B. M. May, Secy.

Va., Lynchburg—Barrow-Schruggs & Co., capital \$25,000, inceptd. with S. C. Schruggs, Prest.; J. D. Hutter, V. P.; mfrs. overalls, etc.

Va., Roanoke—Roanoke Tire & Rubber Co., Inc., 512 Terry Bldg., Charles H. Kieffer, Asst. Secy. will erect plant for mfrs. of tires, tubes, boots, shoes and other rubber goods; 80x300 ft.; steel frame; 3 stories; 12-in. brick wall fireproof and mill construction; Alf Buck, Construction Engr. opens bids about April 1 for construction; E. B. Petty, opens mch. bids about May 1. (See Mch. Wanted—Building Materials; Rubber Plant Equipment.)

W. Va., Newell—Homer Laughlin China Co., East Liverpool, Ohio, will construct building, (Plant No. 6) one story, 230x800 ft. steel type with basement under part; mill construction; install pottery and conveying mch.; H. K. Ferguson Co., Constr. Engr., Cleveland, Ohio; construction in charge of F. B. Lawrence, Box 148, Newell.

W. Va., Shepherdstown—United States Cork Co., inceptd. by Roland C. Ringgold, and E. L. Goldsborough both Shepherdstown; Wm. S. Hammond, Baltimore, Md.

W. Va., Warwood, P. O. Wheeling—U. S. Corrugated Fiber Box Co., will construct addition to plant at Seventeenth St.; cost \$25,000.

Motor Cars, Garages, Tires, Etc.

Ala., Carbon Hill—Garage—J. T. Wakefield will erect 1 story, garage, brick and steel or concrete and steel construction; plate glass front.

D. C., Washington—General Auto Truck Co., 21st and Virginia Ave., N. W. will erect 4-story, 100x100-ft. concrete building; concrete floor and foundation; estimated cost \$75,000; construction by owner; let contract to John P. Evans to install steam heating plant, plumbing, etc.

D. C., Washington—Selby Motor Co., Inc., capital \$50,000, inceptd. by E. Selby, Kier B. Wiseman and Wm. A. Torrey.

Fla., Leesburg—Automobile Laundry—Tom Thompson let contract for erection of 22x30-ft. automobile laundry building on South 5th St., concrete construction.

Fla., Miami—Clow-Chevrolet Co., capital \$50,000, inceptd. with M. E. Clow, Prest. and Treas.; J. O. Clow, V. P. and Secy.

Fla., Miami—Miami Auto Repair Shops, capital \$10,000, inceptd. with Harry Priest, Prest.; Elmer Blackburn, Secy.

Fla., St. Petersburg—John Fox will erect \$15,000 paint shop on 3rd St.

Miss., Greenwood—McIntyre-Hamrich Auto Co., capital \$20,000, inceptd. by Quin McIntyre, L. F. Hamrich and others.

Fla., Tampa—Garage—Williams & Hanson, Inc., capital \$40,000, inceptd. with L. V. Williams, Prest.; P. A. Donnaway, Secy.-Treas.

Ky., Frankfort—Jackson Motor Co., inceptd. by H. D. and E. D. Dunstall and others.

Ky., Middlesboro—Middlesboro Motor Co., capital \$50,000, inceptd. by J. E. Evans, J. V. McCaleb and P. M. Parsons.

Md., Baltimore—Staley's Garage, Inc., 7 W. Eager St., capital \$25,000, inceptd. by Wm. B. Staley, B. M. Irving, H. C. Peterson.

Mo., Columbia—Schwabe Garage, F. W.

Niedermeyer, Propr., will rebuild garage, plans not completed. (Lately noted burned, loss \$30,000.)

Mo., Kansas City—United Tire & Supply Co., capital \$25,000, inceptd. by A. B. Clark, L. E. Kinley, J. T. Peck.

Mo., Kansas City—Cline-Bird Truck Co., inceptd. by M. W. Kline, F. J. Bird, and others.

Mo., Kansas City—Koup Motor Co., capital \$100,000, inceptd. by J. P. Koup, K. N. Murdock and others.

Mo., St. Louis—Taussig Forester Auto Supply Co., inceptd. by B. S. Forester, H. M. and E. M. Taussig.

Mo., St. Louis—Automobiles—Grand Sales Co., inceptd. by J. R. Thompson, V. L. Brownell and others.

N. C., Monroe—Laney-Gordon Motor Co., capital \$25,000, inceptd. by C. M. Gordon, T. B. Laney and A. M. Secrest.

N. C., Oteen—Automobile—Oteen Supply Co., inceptd. by \$25,000, inceptd. by A. T. Davidson, Gray McChesney and H. W. Williams.

N. C., Raleigh—Richbourg Motor Co., increased capital to \$100,000.

N. C., Raleigh—Paige-Jewett Motors, Inc., capital \$100,000, inceptd. by W. E. Smoak, C. C. Disher, Geo. C. Tudor.

N. C., Statesville—Pope Tire & Battery Co., capital \$100,000, inceptd. by W. L. Pope, J. L. Stevenson and L. O. Gibson.

Okla., Shawnee—Gunn Motor Co., capital \$50,000, inceptd. by G. W. Kerfoot, T. E. Gunn and others.

S. C., Greenville—Hartzog-Hale Motor Co., North and Laurens St., organized by W. R. Hale, Jr., O. B. Hartzog.

Tenn., Nashville—Filling Stations—O. W. Thomas & Son, 1900-8th Ave., capital \$25,000, inceptd. with W. C. Thomas, Prest.; will erect 50x60 frame building, composition roof, approx. cost \$6000; install tanks with underground storage for filling station; will probably open a chain of stations.

Tex., Alpine—Highway Service Station, (lately noted inceptd. capital \$10,000) organized with C. A. Brown, Jr., Prest.; G. W. Baines, Jr., Treas., T. F. Skevington, Secy.; has 30x90-ft. fireproof building; install \$2000 auto mechanic and tire service equipment.

Tex., Dallas—For full details see Textile Mills.

Tex., Dallas—Cameron Automobile Co., capital \$60,000, inceptd. by R. L. Cameron, R. C. Rochelle, P. T. Pegues.

Tex., Fort Worth—Reynolds-Gregg Motor Co., capital \$60,000, inceptd. by Guin Gregg, W. W. and J. W. Reynolds.

Tex., Greenville—McWhirter-Nash Co., capital \$10,000, inceptd. by S. R. McWhorter, H. S. Cassler, J. D. Fossee.

Tex., Houston—Smith Chevrolet Co., capital \$24,000, inceptd. by E. B. and K. A. Smits, J. S. Brown.

Tex., Temple—Filling Station—Magnolia Co., will erect filling station at 1st St. and Ave. G., purchased site.

W. Va., Clarksburg—Case Auto Service Co., capital \$10,000, inceptd. by A. L. and S. C. Case, A. R. White.

W. Va., Glenville—Garrett Construction Co. has contract to erect fireproof garage, corner Main and Lewis St.

W. Va., McMechen—Garage—Midway Garage, Frank Goodwin, Prop., will remodel garage, double capacity.

Railways.

Ark., Charleston—President G. W. Allen, of the Charleston Coal Co., says that construction will begin immediately under his personal supervision, on the Charleston & North-eastern Railroad to run from Charleston to Dahoma, Ark., about 5 mi. to serve mines of the coal company. He is also president of the railroad.

W. Va., Charleston—Chesapeake & Ohio Railway proposes to build a branch up Gauley River valley from its present terminus at Rich Creek for a distance of about 10 mi., this to reach timber lands. C. W. Johns, Richmond, Va., is Ch. Engr.

Road and Street Construction.

Ala., Birmingham—Jefferson County Board of Revenue let contract to H. N. Bowdry, Birmingham, at \$26,942.70, to pave 3rd St. from 8th Ave., to 10th Court Alley, with asphalt on concrete base, being part of Pratt City—Birmingham road.

Ala., Birmingham—State Highway Comsn., Montgomery, Ala., will receive bids until Mch. 26 for 28 mi. Birmingham-Gadsden road, through St. Clair County, connecting with Rainbow Drive at Canoe Creek; \$400,000; W. S. Keller, State Highway Engr.

Ala., Carrollton—For proposal details see Mch. Wanted—Road Construction.

Ala., Gadsden—For proposal details see Mch. Wanted—Paving.

Fla., Miami—Florida Cities Finance Co., M. C. Tebbett, Prest., plans building 20 mi., 40 to 60-ft. wide, roadways, each side of center parks; coarse limestone rock. For full details see Lond Developments.

Ark., Texarkana—For proposal details see Mch. Wanted—Paving.

Florida—State Road Dept., Tallahassee, Fla., will build 3 roads. For proposal details see Mch. Wanted—Road Construction.

Fla., Bradentown—Manatee County, Terra Cela Special Road & Bridge Dist., plans improving hard surfaced roads on Terra Cela Island; voted \$55,000 bonds. Address County Commrs. (Lately noted.)

Fla., Inverness—Citrus County Commrs. plan building 10 hard-surfaced roads and appropriated funds as follows: State Road No. 5, from Dunnellon to south county line, via Holder, Hernando, Inverness and Floral City, \$375,000; Crystal River-Inverness, via Le canto, \$250,000; Homosassa to Crystal River, \$24,000; Crystal River to Inglis, \$20,000; Red Level to Dunnellon, \$24,000; from Camp's Dam to Crystal River-Dunnellon road, \$3000; Maple to Crystal River-Inverness road, \$6000; Holder to Stoke's Ferry, \$10,000; Floral City to Weed's Landing and Istachatta, including $\frac{3}{4}$ mi. in Floral City, \$22,000; Inverness to Rutland Ferry, \$16,000. (Lately noted voted bonds.)

Fla., Jacksonville—Jacksonville Concrete Products Co., was awarded contract to lay concrete curbs in Memorial Park, Riverside.

Fla., Jacksonville—Duval County Commrs. plans building paved, macadamized or other hard surfaced roads in County; will vote May 15, on \$2,550,000 bonds; constructing bridges across Trout Creek, and McGirts Creek; will vote May 15 on \$450,000 bonds.

Fla., Jacksonville—For proposal details see Mch. Wanted—Sidewalk Construction.

Fla., Lakeland—For full details see Land Developments.

Fla., Miami Beach, Sta. Miami—For full details see Land Developments.

Fla., St. Petersburg—H. T. Davis, Director of Finance, let contract to Georgia Engineering Co., Augusta, Ga., at \$24,000 to pave 8800 sq. yds. on 4th St., from Ingleside to

Fairview Aves.; brick on sand foundation, asphalt filler. (Lately noted.)

Ga., Atlanta — For proposal details see Mchy. Wanted—Paving.

Ga., Columbus—Walter A. Richards, City Mgr., let contracts to M. C. Barlow, at \$5000 to pave 1st Ave., from 15th to 17th, with brick, and at \$24,000 to pave 6th Ave. from 8th to 10th, with concrete. (Lately noted.)

Ky., Pikeville—J. L. Morgan, Mayor, will receive bids soon to pave with brick, 16 streets and 20 alleys, \$100,000; Stony Amick, Engr. Lately noted. (See Mchy. Wanted—Paving Materials; Paving Equipment; Brick Mchy.)

Louisiana—Louisiana Highway Comsn., will build 2 roads. For proposal details see Mchy. Wanted—Road Construction; Gravel.

La., Amite—Louisiana Highway Comsn., Raymond Bldg., Baton Rouge, will receive bids until Apr. 10 to build 21 mi. of Hammond-New Orleans Highway from end of Frenier, in Tangipahoa and St. John The Baptist Parishes.

La., Colfax—Louisiana Highway Comsn., Raymond Bldg., Baton Rouge, received low bid from Grant Parish Construction Co., Colfax, at \$37,782.10 to gravel 5.49 mi. road on Colfax-Natchitoches highway. (Lately noted.)

Maryland—State Roads Comsn., will build 6 sections of roads. For proposal details see Mchy. Wanted—Road Construction.

Md., Annapolis—For proposal details see Mchy. Wanted—Road Construction.

Md., Baltimore—Board of Awards, Wm. F. Broening, Prest., let contract to Baltimore Asphalt Block & Tile Co., 1320 N. Monroe St., at \$86,691.85, to pave Eutaw Heights Ave., and streets northeast from Clifton Park. (Lately noted.)

Md., Middletown — For full details see Bridges, Culverts, Viaducts.

Miss., Belzoni—Humphreys County, Four Mile Dist., plans building roads; contemplates voting March 30 on \$110,000 bonds. Address County Comms.

Miss., Carthage—For proposal details see Mchy. Wanted—Road Construction.

Miss., Gulfport—For proposal details see Mchy. Wanted—Road Construction.

Miss., Jackson—For proposal details see Mchy. Wanted—Paving.

Miss., Kosciusko — City, Mayor Sanders, plans paving streets around Square, and street leading to depot.

Miss., Lexington—For proposal details see Mchy. Wanted—Road Construction.

Miss., Magnolia — State Highway Dept., Jackson, Miss., let contract to Smith Brothers, Dallas, at \$124,000 to build 2.8 mi. brick surface on concrete base road between Summit and McComb, Pike County, Proj. 136; H. C. Dietzer, State Highway Engr. (Lately noted.)

Miss., Pascagoula—Jackson County plans graveling 5 mi. road from north of Ocean Springs to present wooden bridge across Biloxi Bay. Address County Comms.

Miss., Poplarville—For proposal details see Mchy. Wanted—Road Construction.

Miss., Yazoo City—City plans paving Main St. from Bridge to Madison, and Broadway from Washington to Y. and M. V. Ry. Address The Mayor.

Missouri—State Highway Dept., Jefferson City, Mo., will build 57 roads. For proposal details see Mchy. Wanted—Road Construction.

Mo., Chillicothe — City plans paving 3 blocks of Walnut St. Address The Mayor.

Mo., Columbia—City plans widening and

paving 9th St., between Cherry and Elm Sts. Address The Mayor.

Mo., Jefferson City—F. E. Ross, City Engr., let contract to Joseph Pope to resurface 80 blocks of street at 35 cents front foot. (Lately noted.)

Mo., Joplin—City plans expending \$8237 to pave Moffet Ave. from 7th to 4th Sts.; one course concrete and squeegee asphalt top. Address The Mayor.

Mo., Moberly—City will extend and hard surface Holman Ave., from Concannon to Reed St. Address The Mayor.

Mo., St. Louis—For proposal details see Mchy. Wanted—Paving.

N. C., Asheville—For proposal details see Mchy. Wanted—Paving.

N. C., Asheville — Lakeview Development Corp., will let contract soon at \$25,000 to hard surface several streets in 1400 acres to be developed.

N. C., Burlington—Earl B. Horner, Mayor, let contract to McGuire & Rolfe, Richmond, Va., at \$78,386.50 to grade, and pave, with asphalt about 50,000 sq. yds. streets, including Maple Ave. and Holt St.; also lay 11,000 lin. ft. combined curb and gutter, and install water and sewer mains. (Lately noted.)

N. C., Lenoir—State Highway Comsn., Raleigh, N. C., will let contract Apr. 4 for 3½ mi. between Lenoir and Blowing Rock at Richlands Hill. (Lately noted.)

N. C., Rutherfordton—Town, plans additional improvements, and contemplates issuing \$150,000 bonds, as follows: street, \$25,000, sewer, \$75,000, building, \$50,000. Address The Mayor.

N. C., Saluda—P. H. Bailey, Mayor, plans street paving; contemplates voting on \$65,000 bonds.

N. C., Wadesboro—For proposal details see Mchy. Wanted—Street Improvements.

Okla., Muskogee—For proposal details see Mchy. Wanted—Road Construction.

Okla., Sapulpa—Creek County, Tiger Township plans hard surfacing about 21 mi. road from Payne County line to Mannford Township line, through Drumright and Oilton, and another section from Oilton to Yale; voted \$300,000 bonds. Address County Comms. (Lately noted.)

S. C., Aiken—Aiken County Comms., Chas. J. Hill, Chmn., are considering building paved toll road or hard surfaced free road from Aiken to Augusta, Ga.; election July 10 on \$400,000 bonds for former or \$300,000 bonds for latter. (Lately noted.)

S. C., Columbia—City let contract to Palmer & Conard, Florence, S. C., at \$40,740 to lay 20,000 sq. yds. sidewalks. Address The Mayor.

S. C., Florence — Florence County plans building road from Effingham to Lake City, on route of Atlantic Coastal Highway, and erecting steel bridge across Lynchs River at Effingham; federal aid \$40,000. Address County Comms.

S. C., Fort Mill—For proposal details see Mchy. Wanted—Paving.

S. C., Marion—Town let contract to pave South and North Main, W. Goldbold, Pine, Wheeler, Witcover, Harlee and Willcov Sts. Address The Mayor.

S. C., Sumter—Sumter County Permanent Road Comsn., will build 3 sections of roads. For proposal details see Mchy.—Road Construction.

S. C., York—For proposal details see Mchy. Wanted—Road Construction.

Tenn., Knoxville—Knox County plans repairing 2 roads as follows: One leading to Whittle Springs, and one from south end of

Gay St. bridge over Tennessee River, to Vestal. Address County Comms.

Tex., Anson—For proposal details see Mchy. Wanted—Paving.

Tex., Brady—E. L. Jones, Mayor, plans street paving; contemplates voting on \$75,000 bonds; Baker & Von Zuden, Conslt. Engineers, Fort Worth.

Tex., Brenham—Washington County, J. H. Chappell, County Judge, plans improving 12.6 mi. S. H. No. 36; State Highway Comsn., Austin, granted \$75,285.65; G. A. Bracher, County Engr.

• Tex., Canton—Van Zandt County, F. W. Gaines, County Engr., plans 9.25 mi. North loop of S. H. No. 15; \$80,000; C. L. Hubbard, County Judge.

Tex., Coleman—State Highway Dept., Austin, approved plans 17.72 mi. S. H. No. 7, extending northwest from Coleman, Coleman County; W. E. Dickerson, County Engr.

Tex., Corpus Christi—Secy. of Agriculture, U. S. Bureau of Public Roads, Washington, D. C., approved plans for 12.02 mi. 18-ft. bituminous macadam pavement on Corpus Christi-Bishop road, Neuces County, F. A. Proj. No. 340; Calvin E. Cocke, County Engr.

Tex., Corsicana—City Comsn., plans street improvements, will vote Apr. 3 on \$75,000 bonds; extend sewer system, vote Apr. 3 on \$10,000, bonds, and extend water system, vote Apr. 3 on \$15,000 bonds.

Tex., Crockett—Ch. Engr., U. S. Bureau of Public Roads, Washington, D. C., approved plans for 6.9 mi. gravel surfaced road on S. H. No. 12, Houston County, \$124,083; C. H. Milburn, County Engr.

Tex., Dallas — City Comsn., will receive bids to pave St. Paul St. with concrete base, and bitulithic or Uvalde rock asphalt base, \$20,005.78; city to pay \$5288, and property owners \$14,716; also plans widening N. Lamar St. from Elm to Pacific. S. R. Aldridge, Mayor.

Tex., Dallas—For full details see Textile Mills.

Tex., Eldorado—Schleicher County, W. P. Ford, County Judge, let contract to Rice & Bates, Austin, at \$63,772 for 9.86 mi. Eldorado-Sonora highway, and at \$22,283.40 for reinforced concrete bridge and culverts on 9.9 mi. S. H. No. 4.

Tex., Ennis—E. M. Thomas, Mayor, plans additional paving and street improvements; will vote Apr. 3 on \$60,000 bonds; R. A. McCulloch, City Mgr.

Tex., Falfurrias—Brooks County, H. S. Bell, County Engr., plans surfacing 10 mi. S. H. No. 12, between Falfurrias and Hidalgo County line; gravel caliche; \$90,000; federal aid granted; J. A. Brooks, County Judge.

Tex., Fort Worth—Tarrant County, Emmet Moore, County Judge, plans 1.6 mi. S. H. No. 40, from Riverside to Keller Cardinal; bituminous macadam surface; R. V. Glenn, County Engr.

Tex., Franklin — Robertson County, Joe Reid, County Judge, plans building Meridian Highway; State Highway Comsn., granted \$54,000 federal aid.

Tex., Galveston—Galveston County Commissioners, plan road improvement, including hard-surfaced road between Galveston and Harris County line; plan voting Apr. 14 on \$1,000,000 bonds. (Lately noted.)

Tex., Georgetown—Williamson County Commissioners Court, F. D. Love, County Judge, let contract to W. A. Dozier, Austin, at \$9700 for 2 sections of highway to connect street paving with Georgetown-Austin road on south and Georgetown-Bell County highway on north.

Tex., Hondo—Medina County. R. J. Noonan, County Judge, plans building 2 roads as follows: 10.75 mi. 18-ft. gravel bituminous pavement on S. H. No. 3, between Hondo and Dunlay, \$158,974; 3.5 mi. S. H. No. 27, from Bandera County line to Bexar County line, granted \$9000 federal aid; Walter & Arneson, County Engrs., Gunter Bldg., San Antonio.

Tex., Houston — Harris County Commrs. Court, Chester H. Bryan, County Judge, plans building 1.5 mi. S. H. No. 19; federal aid granted 50 per cent; Howe & Wise, County Engrs., First National Bank Bldg., Houston.

Tex., Jasper—Jasper County, A. D. Hancock, County Judge, plans surfacing 9.2 mi. S. H. No. 7, between Jasper and Angelina County line; federal aid, \$50,000; C. P. Hunter, County Engr.

Tex., Johnson City—Blanco County, Wm. Martiny, County Judge, plans 8.7 mi. Austin-Fredericksburg highway, \$60,000; J. W. Puckett, County Engr.

Tex., Mission—H. F. Bishop, Mayor, let contract to W. L. Pearson, 827 First National Bldg., Houston, at \$30,000, for paving and street improvement.

Tex., Mount Pleasant—Titus County, Dan M. Cook, County Judge, plans improving 4.17 Pittsburgh-Carson Highway from Morris County line to Camp County line, \$60,000; H. S. Wilder, County Engr.

Tex., Palestine—Gulf Bitulithic Co., Houston, Tex., was awarded contract for 24,000 sq. yds. Warrenite bitulithic paving; O. L. Forsgard, City Engr.

Tex., Palo Pinto—Palo Pinto County, E. L. Pitts, County Judge, will receive bids soon to surface 9.8 mi. of north branch of S. H. No. 1; bituminous macadam; \$200,000; G. W. Courter, County Engr.

Tex., Robstown—Smith Bros., Dallas, Tex., received contract to asphalt top 1½ mi. Robstown loop of S. H. No. 12, through city; and W. L. Pierson was awarded contract to pave 8 additional blocks, with concrete. Address The Mayor.

Tex., San Antonio—Bexar County, Augustus McCloskey, County Judge, plans building 3.26 mi. S. H. No. 3, from San Antonio, east, \$38,000; state and federal aid granted; A. C. Pancoast, County Engr.

Tex., Seguin—Guadalupe County, J. B. Williams, County Judge, let contract to Paul Hensen, San Antonio, at \$33,481.83 to grade and gravel surface 9.5 mi. San Antonio-Houston road. (Lately noted.)

Tex., Waco—McLennan County, G. P. Lester, County Judge, plans building section of Dallas-Waco Highway; State Highway Comsn. Austin granted \$8005 aid; Mantan Hannah, County Engr.

Tex., Whitney—City plans expending \$20,000 to pave streets. Address The Mayor.

Tex., Wills Point—City plans street improvement, will vote Apr. 3 on \$10,000 bonds; also plans installing light plant, will vote Apr. 3 on \$25,000 bonds. Address The Mayor.

Virginia — State Highway Comsn., Richmond, Va., will build 2 roads, and bridges. For proposal details see Mch. Wanted—Road and Bridge Construction.

Va., Norfolk—Chas. M. Ashburner, City Mgr., plans expending \$287,000 to pave, install sewers and lay water pipes on 31 streets; will receive bids.

Va., Princess Anne—Princess Anne County, Lynnhaven Dist., contemplates building 2 sections of roads as follows: extend Virginia Beach Blvd., from present terminus beyond Virginia Beach to Cape Henry, eventually to extend boulevard from Cape Henry, via Great Neck road back to boulevard near London Bridge; extend road from Cape Henry across

Lynnhaven Inlet, along Chesapeake Bay shore to connect with Cottage Toll road near Ocean View; all contingent upon passage of \$250,000 bond issue.

Va., Stafford—Stafford County Supvrs. plan improving road between Brooke and Fredericksburg.

Va., Suffolk—For full details see Sewer Construction.

W. Va., Charleston—Lon H. Barringer, City Mgr., receives bids until March 16 to grade, curb and pave Washington St. from Lovell to Summers Sts.; 3550 sq. yds. paving; plans, etc. on file and from Ernest Bruce, City Engr.

W. Va., Pineville—Wyoming County, Huff Creek Dist., plans building 8 mi. road in County; voted \$50,000 bonds. Address County Commrs. (Lately noted.)

W. Va., Wayne—Wayne County let contract to White & Rich, at \$143,124 to complete 6½ mi. road in Lincoln Dist., on Tug River. Address County Commrs. (Lately noted.)

W. Va., Welch—For proposal details see Mch. Wanted—Road Construction.

Sewer Construction.

D. C., Washington—For proposal details see Mch. Wanted—Sewer Construction.

Fla., Greenville—For full details see Water Works.

Fla., Miami—For full details see Land Developments.

Fla., St. Petersburg—For full details see Water Works.

Ga., Atlanta — For proposal details see Mch. Wanted—Sewer Construction.

Ga., Augusta — For proposal details see Mch. Wanted—Sewer Construction.

Ga., Valdosta—For full details see Water Works.

Mo., Chillicothe — City, Jewell Miller, Auditor, will soon let contract for construction of sewer.

Mo., Trenton—City has under consideration construction of storm and sanitary sewer in District No. 14, at cost of about \$10,000. Address The Mayor.

N. C., Burlington—For full details see Road and Street Construction.

N. C., Lexington—For full details see Water Works.

N. C., Rutherfordton—For full details see Road and Street Construction.

S. C., Greenville—City, W. D. Neves, City Engr., has \$100,000 available for sewer improvements.

Tex., Cameron—City let contract to Salgh & Co., San Antonio, at \$10,514 for extension of sewer system. (Lately noted.)

Tex., Corsicana—For full details see Road and Street Construction.

Tex., Fort Worth—City contemplates installing storm sewers on South Side. Address The Mayor.

Tex., Nocona — For proposal details see Mch. Wanted—Sewer Construction.

Va., Norfolk—For full details see Road and Street Construction.

Va., Suffolk—City Council authorized sewer additions to cost \$18,000 and paving of Clay St. and resurfacing of Washington St.

Telephone Systems.

Miss., Biloxi — Cumberland Telephone & Telegraph Co., main office Atlanta, Ga., plans improving system.

N. C., Charlotte—Southern Radio Corp., increased capital from \$15,000 to \$30,000.

Tex., Summitville—Home Telephone Co.,

capital \$10,000, inceptd. by C. E. Smith, A. Fletcher, W. A. Kennedy.

Va., Stafford — James Ashby, Stafford County Clk. has purchased Hartwood telephone line, running from Fredericksburg to Heflin postoffice, with branches extending to Grove Church also Roseville; will repair and extend.

W. Va., Big Isaac—Doddridge & Harrison Telephone Co., capital \$30,000, inceptd. by H. O. Moore, F. E. Bennett and A. C. Darnold.

Textile Mills.

N. C., Concord—Hobart Mfg. Co., inceptd. by E. C. Barnhardt, Sr., A. R. Howard, C. A. Cannon and others; will install 100 looms for weaving colored goods novelties; also dyeing plant; Lockwood, Greene & Co., Engrs., Charlotte, N. C. (See Mch. Wanted—Textile Machinery.)

N. C., Marshville—Marshville Mfg. Co., capital \$100,000, inceptd. by S. M. Robinson, of Lowell, N. C., Morehead Stack, Monroe, and others to erect tire fabric mfg. plant.

N. C., Marshville—E. E. Marsh, J. Z. Green and others interested in organizing company with \$100,000 capital to establish cotton mill.

N. C., Mooresville—Mooresville Cotton Mills Co. will install 10,000 spindles; increased capital to \$4,000,000.

N. C., Rockingham—Leak Mfg. Co., let contract to C. T. Thompson & Bros., Charlotte, N. C. for erecting plant consisting of complete textile mill, warehouse, dye-house and warehouse, Robert & Co., Inc., Atlanta, Ga., Engrs. (Lately noted.)

N. C., Waco—Rhodes Cotton Mills, capital \$250,000, organized with Posey Rhodes, Prest., Lincolnton, N. C., has site and will erect mill with 5000 spindles. (Lately noted.)

S. C., Columbia—Palmetto Cotton Mills, is planning enlargement of plant; 3 stories; standard mill brick construction; install 3000 spindles and 100 looms; will also construct eight dwellings.

S. C., Gaffney—Alma Mills, Dr. W. C. Hamrick, Prest., will erect addition to plant; will install 15,000 spindles, 400 looms; erect about 75 houses; cost \$600,000.

S. C., Groce—Pacific Mills Co., of Lawrence, Mass., Robt. F. Herrick, Prest., Boston, Mass. will erect one bleachery unit, later will construct plant for dyeing and finishing and cotton mill for mfr. of wide sheetings; Lockwood, Greene & Co., Engrs., Atlanta, Ga. (Lately noted.)

S. C., Spartanburg—Spartan Mill let contract to Harrison Electric Co., Spartanburg for installation of 300 electric watt hour meters in mill village.

Tenn., Chattanooga—Nicholson Hosiery Mills, capital \$50,000, inceptd. by F. C., M. J. Nicholson, R. L. Westcott.

Tenn., Chattanooga—Standard Coosa Thatcher Co. has acquired Madeline Hosiery Mill property.

Tenn., Murfreesboro—Murfreesboro Woolen Mills, A. L. Todd, Prest. has site on Salem pike and will erect mill. (Lately noted.)

Tex., Dallas — Pittman Rubber Co., 218 Western Indemnity Bldg., contemplates establishing cotton mill to mfr. tire fabrics; plans include automobile tire factory in same bldg. with daily capacity of 250 tires; install equipment for both plants excepting boilers, engines, motors and pumps. (See Mch. Wanted—Cotton Mill Equipment; Automobile Tire Equipment.)

Tex., Dallas—Dallas Textile Mills Co., J. Berry Burrus, Prest., has 60 acre site N.W.

corner of Love Field industrial district for construction of \$1,000,000 mill; plans are now being prepared; will develop industrial city; build concrete streets; special water supply system; electric lights, gas and erect about 75 dwellings. (Lately noted.)

Tex., Mexia—J. A. Hughes and associates interested in organizing company with \$400,000 capital to construct 5000 spindle cotton mill.

Water Works.

Ala., Eutaw—City let contract to Chicago Bridge & Iron Works Co., for erection of reservoir, metal tank 28 ft. high supported on 100-ft. steel tower with capacity of 100,000 gals.

Ala., Talladega—United States Cast Iron Pipe & Foundry Co. of Birmingham, Ala. has contract for pipe to be used in construction of water supply; P. H. Norcross, Atlanta, Ga., has engineering contract. (Lately noted.)

Fla., Greenville—City, will vote on \$30,000 bonds for installation of water and light systems. Address The Mayor.

Fla., Miami—For full details see Land Developments.

Fla., St. Petersburg—City, H. T. Davis, Director of Finance, will improve gas plant, water works and storm sewerage; now receiving bids for construction; \$1,037,000 bond issue sold.

Ga., Valdosta—W. F. Staten, W. B. Conoley, and L. J. Miller, appointed committee to outline plans for bond issue for extension of sewer and water mains, and disposal plant for sewerage.

La., De Quincy—De Quincy Light & Water Board recommended following bids for water and light improvements costing \$106,861.52; Fairbanks Morse Co., New Orleans, for power plant installation; Southern Engine Co., tanks and tower; Grey Artesian Well Co., Pensacola, Fla., for well; Barger Co., meters; Dixie Mill Supply Co., New Orleans, La., pipe and fittings; J. W. Billingsley, Conslt. Engr. (Lately noted.)

Md., Williamsport—Burgess and Commrs. will construct water system of 150,000 gals. daily capacity; install pumps, etc.; \$100,000 bonds issue authorized; Norton, Bird & Whitman, 615 Munsey Bldg., Baltimore, Md., Engrs. (See Mch. Wanted—Water Supply Equipment.)

Miss., Greenwood—City has plans by Frank R. McGeoy for construction of brick housing for city light and water plant, replacing present building; cost about \$30,000.

Mo., Trenton—Board of Public Works will let contract April 5 for construction of \$175,000 water plant; Burns & McDonnell, Archt., Kansas City, Mo.

N. C., Burlington—For full details see Road and Street Construction.

N. C., Lexington—City let contract to Myers Construction Co. for construction of about 4 mi. additional water mains with fire hydrants and about 2 mi. sewer mains.

N. C., Saluda—City, P. H. Bailey, Mayor, voted \$25,000 bonds for water works. (Previously noted.)

Okla., Nowata—Board of Commrs. appointed Benham Engineering Co., Conslt. Engr., Kansas City, Mo. and Oklahoma City, Okla. for engineering work in connection with water works improvements, consisting of rebuilding pumping station, modern rapid sand mechanical filtration plant, water main extensions and storage reservoir; will probably vote on bond issue.

S. C., Mullins—Board of Public Works,

W. D. Jenerette, Chrmn., will dig deep well for water supply.

Tenn., Jonesboro—City, Mayor Hickey, contemplates improvements to water and sewer system; will probably issue bonds.

Tex., Corsicana—For full details see Road and Street Construction.

Tex., Dallas—For full details see Textile Mills.

Tex., Sulphur Springs—City votes April 15 on \$40,000 bonds for water works improvements. Address The Mayor.

Va., Norfolk—For full details see Road and Street Construction.

W. Va., Barboursville—Barboursville Water & Light Co., capital \$50,000, inceptd. by H. E. and P. E. Love, A. E. May.

Woodworking Plants.

Ala., Birmingham—Birmingham Auto Body Co., capital \$10,000, inceptd. by G. B. McLenore, W. M. Kenwell, T. A. Payne.

Ala., Cullman—Kimball Heading Mill Co. will rebuild mill.

Fla., Tampa—Barbee Furniture Co., capital \$25,000, inceptd. J. T. Puckett, Prest.; A. B. Barbee, Secy.-Treas.

Ky., Louisville—Louisville Wood Products Co., capital \$10,000, inceptd. by Henry L. Rollwage, J. Claude Snyder and others.

Md., Baltimore—Furniture—Union Bros., 2119 E. Fayette St. will erect 3 story and basement, 50x140-ft. building at 37 W. Cross St.; estimated cost \$36,000; Stanislaus Russell, Archt., 11 E. Lexington St.

Md., Baltimore—Columbia Wholesalers, Inc., 205 W. Camden St., capital \$100,000, inceptd. by Wm. S. Graham, Thomas F. Troxell and others.

Mo., St. Louis—Veneered Door Products Corp., 4229 Duncan Ave., (lately noted inceptd., capital \$22,000) organized with Wm. Bieblinger, Prest.; J. V. Fleming, Mgr.; has plant, will install woodworking Mch. (See Machinery Wanted—Motors; Lumber; Veneers; Glue (Cold) Drykilns.)

N. C., High Point—Carolina Piano Mfg. Co., capital \$100,000, inceptd. by G. D. Manning, W. B. Sprinkle and C. W. VonDrehle.

N. C., Mt. Airy—Samet Furniture Co., capital \$15,000, inceptd. by M. Samet, Tp. S. Rothrock, both Mt. Airy, J. Vogle, Greensboro.

N. C., North Wilkesboro—Turner-White Coffin Co., increased capital from \$125,000 to \$500,000.

S. C., Pageland—Pageland Sash & Door Co., capital \$10,000, inceptd. with W. F. Miller, Prest.; S. D. Eubanks, Secy.-Treas.

S. C., Spartansburg—Doors—L. D. Proffit, Prest., Spartansburg Lumber & Mfg. Co., interested in organizing company to mfr. veneered and plain doors.

Tenn., Chattanooga—Chattanooga Wood Products Co., capital \$20,000, inceptd. by D. C. Peglar, T. S. McCaille, R. F. Hudson.

Tex., Bogota—Bogota Hardwood & Furniture Co., inceptd. by E. E. Galt, M. M. Mahefty, W. H. Whitey.

Va., Martinsville—American Dining Room Furniture Co. let contract to Eubank & Caldwell Co., Roanoke, Va., at \$73,000 to construct 5 story, 80 x 250-ft. building, also 1 story, 100x300-ft. machine shop; will probably build power house and dry kiln later. (Previously noted.)

Va., Burdette—Veneer—Hann Mfg. Corp., capital \$20,000, chartered with Theodore K. Hahn, Prest.; L. N. Rainford, Secy.

FIRE DAMAGE

Ala., Ashland—Pocahontas Graphite Co.'s plant; loss not estimated.

Ala., Mobile—Bender Welding Co.'s plant; loss not estimated.

Ala., Montgomery—Montgomery Industrial School, 507 S. Union St.; loss \$30,000; Montgomery Warehouse Co.'s warehouse No. 4.

D. C., Washington—Glover building; loss \$100,000. Address The Owner.

Ga., Atlanta—M. Sherman's store, 161 Edgewood Ave.; loss \$10,000.

Ky., Lexington—Southern Ry. Co.'s freight station on S. Broadway; A. A. Woods, Ch. Eng., Cincinnati, O.

Md., Clear Spring—Charles F. McDonald's carriage factory; loss not estimated.

Md., Cumberland—Gross Bros.' building.

Miss., Brookhaven—Southern Wholesale Co.'s building, M. B. Ellvey, Mgr.; loss \$75,000.

Miss., Laurel—Silas W. Gardiner School; loss \$50,000. Address School Board.

Miss., Meridian—Queen City Broom Co. plant; loss \$7000.

Mo., St. Louis—Valley Box & Paper Co.'s plant at 113 S. Main St.; loss \$10,000.

N. C., Chapel Hill—Wm. S. Bernard's residence, Battles Grove.

N. C., Enterprise, P. O. Clark—Garage owned by Olin Evans; loss not estimated.

N. C., Greenville—Pitt Lumber Co.'s plant; loss \$40,000.

N. C., High Point—Hill Veneering Co.'s plant; loss not estimated.

Okla., Poteau—Poteau Mill & Elevator Co.'s flour mill and elevator; loss \$50,000.

S. C., Anderson—Dr. J. E. Watson's building occupied by F. W. Woolworth Co.

S. C., Columbia—T. H. Walker's residence, 2703 Millwood Ave.

S. C., Mullins—Mullins Hospital owned by Dr. L. M. McMillan; loss \$40,000 to \$50,000.

S. C., St. Matthews—John R. Brandenburg's residence, Church St.

S. C., Sumter—J. W. Jackson's saw mill; loss not estimated.

S. C., Walterboro—J. N. Frank's residence.

S. C., York—Arthur L. Black's gin; loss approx. \$4500.

Tenn., Chattanooga—W. M. Harris' residence, 411 S. Dodds Ave.; also Mrs. S. J. A. Frazier's residence in orth Chattanooga.

Tenn., Chattanooga—Price-Evans Foundry, loss not estimated.

Tenn., Clarksville—Daily Leaf Chronicle's building; loss \$100,000.

Tex., Dallas—Plant of Lone Star Over-all factory, owned by Sanger Bros., loss \$150,000.

Tex., Sherman—D. K. Roberts residence; loss \$7000.

Va., Charlottesville—Albemarle Oil & Gas Co.'s plant; loss \$12,000.

Va., Petersburg—Chas. Moore's residence, Bermuda Hundreds Rd.; loss \$15,000.

Va., Richmond—Drying house of Richmond Cedar Works; loss not estimated.

W. Va., Charleston—Western Union Telegraph Co.'s building; loss \$100,000.

W. Va., Kenova—City Hotel; City Restaurant; Durnutte's Drug Store; loss \$25,000.

W. Va., Martinsburg—Dwelling on Boyd farm, on Opequon back of Leetown; owned by Atty. R. H. Boyd.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

BUILDING NEWS

BUILDINGS PROPOSED

Apartment Houses.

Fla., Miami—Thurman B. Long, Philadelphia and Miami, will erect \$50,000 apartment house, block 33, Washington Ave.; 2 stories.

Fla., Miami—G. S. Phillips will erect \$24,000 apartment house, S. W. 11th Ave.; 2 stories; concrete; 4 suites.

Ky., Louisville—A. F. Hiter will erect \$18,000 apartment house, 1846 Tyler Parkway.

La., New Orleans—Mrs. M. W. Solomon will erect 2-story and basement apartment house, St. Charles Ave. and Octavia St.; frame and stucco; 15 suites; will also convert building already on site into apartments; Emile Weil, Archt., Whitney Central Bldg.

Mo., Kansas City—E. K. Carter Development Co., E. Kemper Carter, Pres., organized to erect apartments and stores; will erect 4 apartment flats at present; \$150,000; Carter-Waters Corp., Archt., Finance Bldg.

Mo., Kansas City—C. O. Jones purchased site, 53rd St. and Rockhill Rd., and will erect four 6-apartment buildings.

S. C., Chester—T. L. Eberhardt plans to erect apartment house on Wylie St.

Tenn., Knoxville—W. C. Terry purchased Graystone Hospital and will remodel for apartments; 12 suites; steam heat; work begun.

Va., Norton — Mrs. Eugenia Jenkins will erect residence in Knoxville. Tenn.; also plans to erect apartment house in Norton.

Association and Fraternal.

Ala., Fort Payne—Ancient Free and Accepted Masons plan to erect \$15,000 lodge building.

N. C., Kannapolis—Young Men's Christian Assn. will raze sections of present building and erect \$80,000 addition; 3 stories; fireproof; concrete; stucco exterior trimmed with rough faced brick, marble panels and terra cotta; composition floors; green tile roof; steel windows; lobby 30x56 ft., gymnasium, 45x90 ft., locker rooms, shower baths, swimming pool, 6 bowling alleys; M. E. Boyer, Jr., Archt., Charlotte; let contract March 21.

Tex., Houston—Young Women's Christian Assn., Mrs. Harris Masterson, Chmn. Bldg. Comm., will erect \$400,000 residence hall, Dallas St. and Crawford Ave.; accommodate about 125; B. P. Briscoe, Archt., Carter Bldg.

Bank and Office.

Ala., Birmingham—D. O. Whildin has permit to erect \$10,000 office building, 515 21st St. and \$4500 store, 17th St. and 4th Ave.

Ala., Tusculum—First National Bank will erect building, Main and 5th Sts.

Fla., Avon Park—First Trust & Savings Co. and other interests plan to erect Duran-First Trust-Verona Investment block, Wm. J. Helm, Engr.

Fla., St. Petersburg—C. M. Roser has laid foundation for 6-story addition to office building, 5th St., South.

Ky., Louisville—National Bank of Kentucky

will expend \$40,000 on alterations to building, 602 S. 4th St.

Mo., Springfield—Benton Bldg. & Investment Co. will erect \$50,000 office building; Earl Hawkins & Co., Archts.

Tex., Beaumont—Eastern Texas Electric Co., A. F. Townsend, Gen. Mgr., will erect \$45,000 annex to general offices; 3 stories.

Tex., Houston—Binz & Settegast contemplate erection of office building, Main and McKinney Sts.

Tex., Lufkin—Lufkin National Bank will erect \$100,000 building.

Tex., New Braunfels—Mrs. H. Krause will erect 2-story reinforced concrete office building; Herbert S. Green, Archt., Alamo Bank Bldg., San Antonio.

Tex., San Antonio—Guaranty State Bank will remodel old Bexar Hotel Bldg. for bank; Phelps & DeWees, Archts.; plans complete latter part of March.

Tex., San Antonio—Travis-St. Mary's Co. organized with \$175,000 capital stock and plans to erect 8-story office building, Travis and St. Mary's Sts.

W. Va., Norton—West Virginia Coal & Coke Co., Elkins, will erect office building. (See Warehouses.)

Churches.

Ala., Dothan—First Presbyterian Church, N. H. McCallum, Chmn., Bldg. Comm., will receive bids until April 16 to erect brick church and Sunday school building; Okel & Cooper, Archts., Montgomery; specifications and proposal blanks from Mr. McCallum.

Fla., Tampa—Schaarai Zedek Synagogue, Florida Ave. near Fortune St., Abe Maas, Prest., will erect \$25,000 building, probably in Suburb Beautiful, Hyde Park.

Ga., Waycross—First Presbyterian Church, J. R. Whitman, Secy. Bldg. Comm., purchased site and plans to erect \$75,000 building within 18 months. (Lately noted.)

La., Coshatta—Methodist Church, Rev. Louis Hoffpauer, Pastor, will erect \$20,000 building; brick; 70 x 50 ft.; 2 stories; hardwood and cement floors; composition roof; metal ceiling; Edw. A. George, Archt., Shreveport. Address Mr. Hoffpauer. (Lately noted.)

La., New Orleans—St. Mary's Italian R. C. Church, Rev. John Massaro, Pastor, will erect \$250,000 building, Chartres and Ursuline Sts.; Italian renaissance design; 60x186 ft., not including projecting sanctuary, sacristy, chapel or transepts; brick; plastered interior; tile roof; will also remodel present church; Di-boll & Owen, Archts., Inter-State Bldg.

Miss., Jackson—St. Andrews Episcopal Church will erect \$30,000 to \$35,000 parish house; brick and frame; concrete and wood floors; asbestos shingle roof; metal ceilings; rolling partitions; vapor system steam heat; electric wiring; Emmett J. Hull, Archt.; bids opened March 25.

Mo., Chillicothe—A. M. E. Church, Rev. T. D. Driver, Pastor, plans to erect building.

Mo., Kansas City—Euclid Ave. Baptist Church, Rev. M. G. Barlow, Pastor, will erect \$50,000 plant; \$20,000 unit to be erected first; Ernest O. Broston, Archt.

Mo., Marshfield — Methodist Episcopal Church, Rev. C. R. Young, Pastor, will erect

building; auditorium to seat 500, kitchen, dining room and 6 Sunday school classrooms.

Mo., Queen City—Christian Church will erect stucco building; about \$10,000; basement; install furnace. Address The Pastor.

N. C., Caroleen—Baptist Church, Rev. W. T. Tate, Pastor, will erect \$12,000 building; kitchen, dining room, library, etc.; plans to erect auditorium later.

N. C., Gastonia—Calvary Baptist Church will erect \$12,000 building; 2 stories; brick veneer; White, Streeter & Chamberlain, Archts.

N. C., Winston-Salem—Greenwood Baptist Church will erect building. Address The Pastor.

N. C., Winston-Salem—Southside Baptist Church will erect building. Address The Pastor.

N. C., Winston-Salem—Waghtown Baptist Church will erect building. Address The Pastor.

Tenn., Dresden—M. E. Church, Dr. J. L. Jones, Chmn. Bldg. Comm., will erect \$25,000 building, including heating plant; inclined double floor with double cork isles; auditorium to seat 230, gallery 150; T. L. Brodie, Archt., Jefferson County Bank Bldg., Birmingham, Ala. (Previously noted.)

Tenn., Nashville — Immanuel Baptist Church, Dr. Ryland Knight, Pastor, will erect \$60,000 Sunday school building at rear of church to replace present structure; 3 stories; accommodate 1200; auditorium, culinary dept., nursery, etc.; sound proof walls; Hart & Nevins, Archts.

Va., Bedford—Bedford City Baptist Church, Geo. A. Miller, Chmn. Bldg. Comm., receives bids until April 5 to erect church and Bible school building, E. Main St.; Greek type; 4 granite Doric columns; auditorium to seat 500; educational building in rear, 3 stories; kitchen; Smithy & Tardy, Archts.; Roanoke; plans and specifications from Mr. Miller. (Previously noted.)

Va., Dillwyn—Baptist Church will erect \$20,000 building. Address A. S. Spencer, Vice-Pres., First National Bank.

Va., Radford—West End Christian Church plans to erect building. Address The Pastor.

City and County.

D. C., Washington — Library—Theo. W. Noyes, Prest., Public Library Board of Trustees, will erect Mount Pleasant and Columbia Heights Branch of public library; \$100,000; Edw. L. Tilton, Archt., New York; Carnegie appropriation available. (Previously noted.)

Fla., Miami—City Hall and Fire Station—Florida Cities Finance Co., M. C. Tebbetts, Prest., will develop tract to be known as Fulford-By-The-Sea; erect fire station, city hall, etc. (See Hotels.)

La., Ferriday—Town Hall—Ferriday Co-op-erage Co., D. B. Fleming, Chmn. Bldg. Comm., will receive bids until April 1 to erect 1-story brick town hall.

Miss., Crystal Springs—Fire Station—City will erect fireproof fire house. Address The Mayor.

N. C., Roxboro—Home—Person County Board of Commrs., W. H. Harris, Chmn., will receive bids at courthouse until April 3 for construction and heating equipment of County Home building for aged and infirm, near Roxboro; drawings and specifications from Harry Barton, Archt., Greensboro.

N. C., Winston-Salem—Market—City will erect market, Cherry and 6th Sts.; 1 and 2 stories; 100x240 ft.; concrete floors and foundation; hollow fireproof and interior tile;

metal ceilings and doors; vault lights; ventilators; ornamental terra cotta; steel sash and trim; wire glass; refrigerating system and heating plant in basement; 26 stores and 28 stalls; W. C. Northup, Archt., Winston-Salem; Wiley & Wilson, Engrs., Lynchburg, Va.; Atlantic Bitulithic Co., Richmond, Va., contr. to excavate 20,000 yds. (Lately noted.)

Okl., Broken Arrow—Municipal Building—City plans to vote in April on \$50,000 bonds to erect municipal building; 2 to 3 stories; to house city offices, fire dept., library, auditorium, etc.

Tex., Magnolia Park—City Hall and Fire Station—City, W. N. Fleming, Secy.-Treas., will receive bids until March 27 to erect and complete 2-story brick and tile city hall and fire station; plans and specifications from McLelland & Fink, Archts., Woolworth Bldg., Houston; separate bids for plumbing, heating and electric wiring.

Tex., Waco—City Hall—City, Ben C. Richards, Mayor, plans to erect city hall; to receive competitive plans; to call bond election later.

W. Va., Charleston—Comfort Station—City, Mayor Hall, will erect comfort station, West Side; site 30 x 30 ft.; Bedford limestone; tile roof; metal doors and divisions; Warne, Tucker & Patterson, Archts.; \$19,000 available for construction.

Courthouses.

N. C., Wilmington—New Hanover County will erect \$125,000 annex to courthouse; probably 3 stories with jail on top floor; Leslie C. Boney, Archt.; will issue bonds. (Lately noted.)

Okl., Jay—Delaware County will erect courthouse; let contract April 10. Address County Commrs.

Dwellings.

Ala., Birmingham—Gray Brothers will erect four \$2500 dwellings, Norwood Blvd. and 16th Ave.

Ala., Ensley—Erby Zeigler will erect 1 dwelling, 27th St. and Avenue I, two, 29th St. and Avenue H, one 26th St. and Avenue F; total \$10,000.

Ala., Huntsville—Dallas Mfg. Co., G. H. Milliken, Pres., plans to erect 30 to 40 superintendents' and foremen's dwellings; about \$100,000.

Ala., Tusculumbia — A. R. Carmichael will erect 2 brick bungalows on E. 6th St.

Ala., Tusculumbia—John S. Funke will erect 2 brick bungalows on E. 4th St.

Fla., Bartow—H. W. Lewis, New York, and E. C. Cokefair, Bloomfield, N. J., present address, The Oaks, plan to erect 50 dwellings.

Fla., Daytona—W. C. Hardesty will erect 8 Spanish type dwellings in Rio Vista, on Halifax River; also \$50,000 Spanish residence for own occupancy, Riviera and Hardesty Plaza Grande, Rio Vista; Martin L. Hampton, Archt., Miami.

Fla., Jacksonville—Jesse L. Williams will erect \$12,000 residence, Vernon Terrace near Bayard Pl.; 2 stories; brick veneer; Chas. J. Davis, Jr., Contr.

Fla., St. Petersburg—Schooley-Murphy Co. will erect 5 hollow tile and stucco dwellings, 3rd, 4th and 5th Aves., North, between 76th and 77th Sts.; \$8000 each.

Ga., Macon—Guy Armstrong will erect \$10,000 residence, Clayton St.; 9 rooms; brick veneer.

Ga., Savannah—W. B. McNeal will erect Colonial residence, 51st St. facing Vetsburg Park; 3 stories and basement; rough faced

brick veneer; Vermont slate roof; 3 baths; enclosed sun porch; hot water heating plant in basement; garage and servants' quarters with bath in separate building; Olaf Otto, Archt.; construction begun.

Ga., Savannah—R. J. Whaley will erect brick residence, Estill Ave., Lawton Ward; Italian renaissance type; stone trim; oak floors; slate roof; 2 baths; enclosed sun parlor; heating plant and laundry in basement; Levy, Clarke & Bergen, Archts.; owner builds.

Ky., Louisville—J. E. Buschemeyer will erect \$12,500 residence, lot 13, Lauderdale.

La., New Orleans—John F. Charlton, 750 Gravier St., will erect 3 double cottages, Plum and Hillory Sts.; \$15,000.

La., New Orleans—Mrs. E. Righton will erect frame and stucco residence, Richmond Pl. and State St.; 2 stories; Rathbone De-Buys, Archt., Hibernia Bank Bldg.; bids opened.

La., New Orleans—Emile Weil, Whitney Central Bldg., prepared plans to erect 2-story frame and stucco Spanish type dwelling, 14 Audubon Blvd.; tile roof.

Md., Baltimore—Broring Building Co., 2800 Harford Ave., will erect 21 dwellings, N. E. side Broring Ave. near Belair Rd.; total \$40,000; 2 stories; brick.

Md., Baltimore—Cityco Realty Co., 2 E. Lexington St., will erect 17 dwellings, N. E. cor. Grantley and Willowdale Aves.; one 14.10 by 13-ft.; sixteen 18.6 by 30 ft.; also 5 dwellings, N. E. cor. Grantley and Towanda Aves.; 18.6 by 33 ft.; all 2 stories; brick; slag roofs; steam heat; total \$65,000; F. E. Beall, Archt., 306 St. Paul St.; owner builds. (Lately noted.)

Md., Baltimore—Johnson & Meekins, Wm. C. Johnson, 533 N. Belnord Ave., will erect 11 dwellings and one 1-story frame garage, north side Schley Ave., near Southern Ave.; 1½ stories; frame; total \$30,000.

Md., Baltimore—M. W. Whiteley & Co., Inc., 2333 E. Monument St., will erect ten 1½ story frame bungalows, S. E. side Asbury Ave. near Furlay St.; total \$25,000.

Md., Baltimore—Loyola Construction Co., Inc., 2600 Loyola Hts. Ave., will erect 13 dwellings, lately noted, 2650-56 Oswego Ave., 4201-09 and 4301-07 Old Pimlico Rd.; seven 25 x 35 ft., two 22 x 35 ft., three 25x50 ft., and one 28x70 ft. with bldg. assn. branch office in rear; all 2 stories; brick; rubble stone foundations; hardwood floors; slag composition roofs; metal ceilings; interior tile; hot water heat; total \$60,000; R. T. Regester, Constr. Engr., 2715 St. Paul St.; owner builds. (See Mch. Wanted—Building Material.)

Md., Baltimore—Elisha R. Jones, University Apts., will erect \$10,000 residence, Kenock Ave., Hill Top Park, Mount Washington; 2½ stories; frame; garage.

Md., Baltimore — Herbert H. Nelly, 121 South St., will erect 2½-story frame cottage, 3608 Grantley Rd.; \$10,000.

Md., Baltimore—Merin Bros., 2225 Callow Ave., will erect 5 two-story brick dwellings, N. E. cor. Reisterstown Rd. near Manchester Ave.; 18x32 ft.; slag roofs; furnace heat; \$15,000; Stanislaus Russell, Archt., 11 E. Lexington St.; owner builds; will also erect 15 two-story brick dwellings, Reisterstown Rd. near Woodland Ave.; \$50,000.

Md., Baltimore—Mrs. Julia H. Eichelberger, 1600 N. Hilton St., will erect 3 two-story brick dwellings, 3325-29 Waldheim St.; \$12,000.

Md., Baltimore—James Keelty, 1123 Poplar Grove St., will erect 9 dwellings, 501-17 Collins Ave.; 2 stories; brick; slag roofs; fur-

nace heat; \$30,000; F. E. Beall, Archt., 306 St. Paul St.; owner builds. (Lately noted.)

Md., Baltimore—Overlea Realty Co., Belmar Ave. and Belair Rd., will erect 4 frame dwellings, north side Raspe Ave., east of Rose Ave.; 1½ stories; two 24x36 ft. and two 26x36 ft.; furnace heat; \$15,000; R. C. Brockmeyer, Archt., 1665 N. Milton Ave.; owner builds. (Lately noted.)

Mo., Fulton—Jos. L. Bush and John Wren will erect dwellings during summer.

Mo., Kansas City—Bigham Bldg. Co. will erect 2 dwellings, 201-07 and 211 W. 51st St. Terrace; \$8000 each.

Mo., Kansas City—A. C. Black purchased site, 57th and Bellevue Sts., and will erect L-shape English type residence.

Mo., Mexico—Judge Wallace Fry will erect brick residence, Waddingham Place.

Mo., Springfield—Gus Compton will erect 2 bungalows, E. Monroe St., and 2 dwellings, Holland Ave. and Monroe Sts.; construction begun.

N. C., Asheville—L. B. Jackson & Co. purchased 8 lots, Colonial Hts., and will erect 8 dwellings; 5 to 8 rooms each; total \$60,000.

N. C., Charlotte—Jack Blythe will erect English type residence, Colonial Hts.; stone and timber; enclosed sleeping porch; 2 baths; M. E. Boyer, Jr., Archt.

N. C., Charlotte—Home Real Estate & Guaranty Co. will erect two \$3000 dwellings, 64-66 W. Park Ave.; two \$3500 dwellings, 18-203 Colonial Ave.; \$6000 dwelling, 19 Providence Rd.

N. C., Cherryville—J. W. Kendrick will erect \$25,000 residence; 2 stories and basement; brick; White, Streeter & Chamberlain, Archts.

N. C., Gastonia—J. E. Keller will erect \$20,000 residence; 2 stories and basement; brick; tile roof; White, Streeter & Chamberlain, Archts.

N. C., High Point—High Point Perpetual Bldg. & Loan Assn. will erect 36 dwellings; \$2000 to \$5000 each.

Okl., Oklahoma City—Smith Bros. will erect \$10,000 brick dwelling, 315 W. 24th St.

S. C., Clover—O. E. Niell will erect \$12,000 residence; 1 story; brick veneer; White, Streeter & Chamberlain, Archts.

S. C., Gaffney—Alma Mills, Dr. W. C. Hamrick, Pres., will erect 75 operatives' dwellings in connection with mill enlargement.

S. C., Greenville—R. P. Sweeney plans to erect residence, Elm St. and Mills Ave.

Tenn., Chattanooga—Chas. H. Clemons is reported to erect residence, Crest Rd., Missionary Ridge.

Tenn., Chattanooga—T. M. Clemons is reported to erect residence, Crest Rd., Missionary Ridge.

Tenn., Knoxville—Mrs. Eugenia Jenkins, Norton, Va., will erect residence. (See Apartment Houses.)

Tenn., Memphis—Lemon Buckingham will erect residence in Morningside Park.

Tenn., Memphis—Jas. E. Switzer will erect Spanish renaissance type residence, Court Ave. near Cox St.; fireflash glazed tile roof; grill work; 3 baths; built-in features; tiled solarium; J. Frazier Smith, Archt.

Tex., Dallas—Dallas Textile Mills Co., J. Berry Burrus, Pres., will erect number of dwellings in connection with mill development.

Tex., San Antonio—Jesse Oppenheimer will erect 2-story brick residence, garage and

servants' quarters, Terrell Hills; slate roof; Atlee B. & Robt. M. Ayres, Archts.; V. L. Rasmussen, low bidder at \$67,698; Martin Wright, low bidder for electrical work, \$596; Jud & Ormund, low bidder for plumbing, \$2963 and heating \$2398. (Lately noted.)

Tex., San Antonio—J. M. Nix will erect country residence and garage, Fredericksburg Rd. near Alamo Club; Colonial type; tile and stucco; Henry T. Phelps, Archt.; K. G. Granberg, low bidder at \$34,660; A. H. Shafer, low bid for plumbing, \$1723, and Martin Wright, electrical work, \$554. (Lately noted.)

Tex., San Marcos—Roy L. Thomas, Littlefield Bldg., Austin, prepared plans for Methodist District parsonage.

Va., Norfolk — Home Builders' Finance Corp., John T. Phillips, Prest., will erect 20 to 25 dwellings; 5 to 7 rooms each; total \$75,000; plans and construction by owner.

Va., Richmond—M. K. Dabney, 113 W. Forshee St., will erect \$10,000 residence, 1831 W. Broad St.; 1 story; brick; 40x115x22 ft.; brick foundation; wood floors; asphalt roof; steam heat; plans and construction by owner.

Va., Roanoke—E. E. Hamerton will erect 2 brick and shingle dwellings, 124-26 Wycliffe Ave., South Roanoke; \$5000 each.

Va., Roanoke—R. J. Wright will erect 11 dwellings, Jackson Ave., S. W.; \$1250 each; also 6 brick cased dwellings, Oak Terrace; \$2400 each.

Hospitals Sanitariums, Etc.

Ark., Hot Springs—Constructing Quartermaster, Army and Navy General Hospital, Hot Springs National Park, will receive bids until April 2 to erect 1 double set of officers' quarters; further information upon application.

Fla., St. Petersburg — City, A. R. Welch, Chmn., Hospital Board, will erect \$75,000 addition to the city hospital and probably change name to Augusta Memorial Hospital; fireproof; 2 stories; construction to permit erection of additional stories; will also erect hospital for negroes, 22nd St. and 10th Ave., South; 10 beds; \$10,000 to \$17,000; Henry L. Taylor, Archt.; bonds voted; bids opened April 16. (Previously noted.)

Ga., Atlanta—Board of Trustees of Steiner Estate will erect \$300,000 Steiner Memorial Hospital for treatment of cancer, Armstrong and Butler Sts.; 4 stories; to be connected with Grady Hospital by tunnel; Hentz, Reid & Adler, Archts.

Miss., Sanatorium—Forrest County Board of Supervisors, Hattiesburg, is considering erection of \$10,000 unit at State Tuberculosis Sanatorium.

N. C., Salisbury—Salisbury Hospital plans to repair building slightly damaged by fire and erect additional section.

Tex., El Paso—Dr. R. B. Homan and associates will erect \$150,000 building for Homan Sanatorium; 3 stories; 100 rooms; 2 passenger elevators.

Tex., Ennis—City, Mayor Thomas, will erect \$50,000 municipal hospital; Hix McCandless, Archt. (Lately noted.)

Va., Richmond—Medical College of Virginia, Frederic B. Morlok, Supt. Hospital Div., let contract to Russell S. Myers to raze building, N. 12th St.; will erect \$1,000,000 structure; to be connected with Dooley and St. Philip's Hospitals by underground passage.

Hotels.

Ala., Dothan—W. R. Harblson, DeFuniak Springs, is promoting erection of \$1,000,000 hotel; 100 rooms with baths.

Ala., Selma—Hotel Albert will erect 40-room addition to building.

Fla., Bradentown—Dr. J. C. Walters, Springfield, Ill., will erect commercial and tourist hotel; 145x98 ft.; hollow tile and pebble dash or stucco; 4 stories and roof garden; steam heat; electric elevators; 80 bedrooms with bath; dining room to seat 150 to 200; A. C. Price, Archt., Bartow, Fla.

Fla., Miami—Florida Cities Finance Co., incorporated with \$1,000,000 capital by M. C. Tebbetts, Prest., Miami; Edgar C. Linn, V.-P., Brookline, Mass.; purchased 1000-acre tract 11 miles from Miami and will develop, to be known as Fulford-By-The-Sea; pave about 20 miles of roads, curbs, cement walks; erect 4-story hotel, 2-story city hall and 1-story fire station; electric lights; septic tanks; Jno. T. Sherwood, Archt., Fort Pierce and Miami; Norman W. Parlee, Miami, will supervise construction.

Fla., Palm Beach—L. G. Biggers and associates will erect 6-story hotel; Harvey & Clarke, Archts.

Fla., Palm Beach—H. C. Curtis, Chattanooga, Tenn., will erect Billows Hotel at Worth Ave. and Ocean Blvd.; 70x150 ft.; 3 stories; Spanish renaissance type; Wm. Manly King, Archt.

Fla., St. Petersburg—Franklin J. Mason and associates will erect \$500,000 hotel at 4th St. and 1st Ave.; 9 stories; 200 rooms; fireproof; F. H. Trimble, Archt., Orlando.

Ky., Bardstown—W. O. Stiles and associates will erect \$300,000 hotel at Public Square; 3 stories; 6 or 7 stories; fireproof.

La., Baton Rouge—Alex Grouchy, Jr., Mgr., Istrouma Hotel, is interested in erection of hotel at Florida and 3rd Sts.; 7 stories; 150 rooms; Favrot & Livaudais, Hibernia Bank Bldg., New Orleans, prepared tentative plans.

La., Ferriday—H. C. Sevier will erect \$20,000 to \$30,000 annex to Sevier Hotel; 2 stories; 30 rooms and several stores.

La., New Orleans—Sisters of Charity of St. Vincent de Paul will erect 5-story addition to Hotel Dieu, Johnson and Tulane Aves.; \$750,000; fireproof; brick and steel; Paul Andry, Archt., 840 Gravier St.; Geo. J. Glover, Whitney Central Bldg., is estimating. (Previously noted.)

N. C., Boone—Chamber of Commerce, W. H. Graff, Prest., is promoting erection of hotel; 50 rooms.

Tenn., Cleveland—B. D. Moore and associates plan to erect 60-room fireproof hotel at Broad and 31st Sts.

Tex., San Antonio—Baker Hotel Co., Chas. St. Clair, Secy.-Treas., will remodel and enlarge Cheaney Hotel, Martin and Navarro Sts., and change name to Texas Hotel of San Antonio.

Va., Dillwyn—C. R. Wood, A. W. Carter, W. H. Robertson and others organized corporation to erect \$100,000 hotel.

Miscellaneous.

Ga., Atlanta—Market—Municipal Market Corp., Col. W. L. Peel, Prest., will erect \$150,000 building at Edgewood Ave., Bell, Boaz and Butler Sts.; contain acre of floor space; 175 to 200 booths; mezzanine floors; outer walls of glass; skylights; glass marquees on 4 sides; rest rooms; A. Ten Eyck Brown, Archt.

Md., Timonium—Fair — Maryland State Fair & Agricultural Society will construct grandstand, executive offices, jockey's room, etc.; \$60,000.

Mo., Kansas City—Amusement Pavilion, etc.—Sam Benjamin, Mgr., Fairyland, will construct \$75,000 ride; also construct dance floor.

N. C., Rutherfordton—Undertaking Estab-

lishment—Hovis & Keeter will erect building; 50x75 ft.; 1 story; brick.

N. C., Winston-Salem—Home—W. N. Reynolds, Prest., R. J. Reynolds Tobacco Co., will erect home on Madison Ave. for Winston-Salem Juvenile Assn.

W. Va., Glenville—Fair—Gilmer County Fair Assn. organized with \$25,000 capital; E. E. Cottrill, Prest.; purchased 222-acre farm and will erect buildings, improve grounds, etc.

W. Va., Huntington—Home—Foster Foundation, Col. D. E. Abbott, Prest., will erect Foster Home for 'Aged Women.

Railway Stations, Sheds, Etc.

Ark., Texarkana—Missouri-Pacific R. R., E. A. Hadley, Ch. Eng., St. Louis, is considering erection of station on Front St.

Md., Baltimore—Baltimore & Ohio R. R. Co., H. A. Lane, Ch. Engr., will construct 25x300 ft. platform and steel frame sheds, 21st and Oak Sts.; bids opened about March 30.

N. C., Charlotte—Norfolk Southern R. R. Co., F. L. Nicholson, Ch. Eng., Norfolk, Va., will not erect freight and passenger station as lately incorrectly reported.

N. C., Cherryville—Seaboard Air Line R. R., W. D. Faucette, Ch. Eng., Norfolk, Va., will erect freight and passenger station.

Va., Dillwyn—Chesapeake & Ohio R. R., F. I. Cabell Ch. Eng., Richmond, will erect \$40,000 freight and passenger station.

Va., Graham—Norfolk & Western R. R., J. E. Crawford, Ch. Eng., Roanoke, Va., will erect passenger station.

Schools.

Ala., Daphne—Baldwin County Board of Education, Bay Minette, will erect 5-room school.

Ala., Gadsden—City Board of Education, C. A. Donehoo, Supt., will erect \$150,000 high school on 12th St.; A. D. Simpson, Archt.

Ala., Huntsville—Wills-Taylor School will erect dormitory.

Fla., Pine Level—De Soto County School Board, Arcadia, will erect \$10,000 building; brick.

Fla., Orlando—Orange County Board of Public Instruction, A. B. Johnson, Supt., will erect 2 or more grammar schools, 12-room grammar school, auditorium to present grammar school, equip high school; brick or stucco with fireproof stairs; H. M. Reynolds, Archt.

Fla., Plant City—County Board of Public Instruction, J. E. Knight, Supt., Tampa, will erect white grammar school, \$26,000; remodel white grammar school, \$13,000; erect negro school, \$12,000; Frank J. Winn, Archt., Tampa.

Fla., St. Petersburg—County Board of Public Instruction will erect \$180,000 junior high school; 30 rooms; accommodate 1400 pupils; bonds voted. (Lately noted.)

Ga., Donalsonville—Donalsonville Consolidated School Dist. Trustees, H. G. Ray, Secy., plan to erect school; election April 17 on \$25,000 bonds.

Ky., Danville — Centre College, McBrayer Moore, Chmn. Bldg. Comm., plans to erect \$55,000 stadium; reinforced concrete; seat 12,000.

Ky., Owensville—School Board will erect \$40,000 high school.

Miss., Money—Money Consolidated School Dist. will vote March 31 on \$27,500 bonds to erect building. Address Dist. School Trustees. (Lately noted.)

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Miss., Oxford—Board of Trustees, Perkins Consolidated School Dist., will receive bids at office Superintendent of Education until March 31 to erect school and teacherage; plans and specifications with Superintendent.

Mo., Blue Springs—School District Trustees are considering erection of building.

Mo., Clark—School Board plans to erect high school and addition to present structure for auditorium.

Mo., Fair Play—School Board, Dr. C. M. Brown, member, will erect \$35,000 high school; 2 stories and basement; 63x80 ft.; brick, concrete and wood floors; concrete foundation; gravel roof; steam heat; Geo. F. Reed, Archt., Springfield; bids opened April 2.

Mo., Herman—Herman School Dist. Trustees plan to erect high school; election April 5 on \$50,000 bonds.

Mo., Monroe City—Board of Education plans to erect high school; election April 3 on \$75,000 bonds.

Mo., St. James—Board of Education, F. E. Gruber, Secy., will erect high school; brick; plans and specifications at office Hoener, Baum & Froese, Archts., 1519 Federal Reserve Bank Bldg., St. Louis.

Mo., Trenton—Board of Education plans to erect high school; also remodel present structure; considering election on \$185,000 to \$200,000 bonds.

N. C., Ayden—School Board plans to erect \$80,000 building.

N. C., Charlotte—Mecklenburg County Board of Education, J. M. Matthews, Supt., will erect school in Sharon School Dist. No. 3; \$18,000 to \$20,000; 6 rooms; brick; election probably April 23 on bonds; also plans to erect school at Hickory Grove; 6 to 8 rooms and auditorium; brick.

N. C., Hickory—Lenoir College, Dr. J. C. Peery, Prest., plans to erect 3 or more buildings.

N. C., Rutherfordton—School Board will erect \$25,000 grade school; bonds voted.

N. C., Walnut Cove—Walnut Cove Special School Tax Dist. will vote April 16 on \$15,000 bonds to complete school. Address Dist. School Trustees.

Okla., Crescent—Board of Education, Chas. Graft, Clk., will receive bids until March 26 to erect high school; 1 story and balcony; brick; plans and specifications at office The Weathers Co., Oil Exchange Bldg., Oklahoma City. (Lately noted.)

Okla., Cushing—Board of Education authorized calling election on \$95,000 bonds to erect \$70,000 gymnasium and auditorium for high school and \$25,000 for equipment of school.

Okla., Kenwood—School Board will erect \$10,000 building.

Okla., Muskogee—School Board, School Dist. No. 71, W. H. Lephew, Clk., will erect building.

S. C., Chester—School Board, Prof. M. E. Brockman, Supt., will receive bids until April 11 for construction and heating of high school; \$125,000; 3 stories; wood floors; slate roof; plans and specifications at office Edwards & Sayward, Archts., Chamber of Commerce Bldg., Atlanta, Ga., and office Mr. Brockman. (Lately noted.)

S. C., Fork Shoals—(R. D. from Fountain Inn)—Fork Shoals School Dist. will vote on \$12,000 bonds to erect building; M. C. Barton, Supt. of Schools, Greenville.

S. C., Gaffney—Gaffney School Dist. No. 10 will vote on \$300,000 bonds; N. H. Littlejohn, Chmn., Board of Trustees. (Previously noted.)

S. C., Ruffin—School Trustees, D. E. Appleby, Chmn., will erect 2-story brick school; bids opened March 20; plans and specifications at office Benson & Barbot, Archts., Charleston, and office Mr. Appleby.

Tenn., Athens—McMinn County Board of Education, E. R. Lingfelt, Supt., plans to erect \$135,000 elementary school and \$100,000 high school; will call election on bonds.

Tex., Abilene—Board of Education will erect first unit of high school; David S. Castle Co., Archt., Radford Bldg.; bids opened March 16.

Tex., Ballinger—County School Board will erect high school; \$150,000.

Tex., Bremond—Bremond Independent School Dist. Trustees, E. W. Roberts, Secy. will erect building.

Tex., College Station—A. & M. College, Dr. W. B. Bizzell, Prest., will erect extension service administration building; \$100,000; also remodel present structure for dormitory; \$15,000; plans by Prof. E. B. LaRoche, Archt. at college.

Tex., Dallas—City, Sawnee R. Aldredge Mayor, will vote April 3 on \$8,325,000 bonds including \$1,000,000 for schools. (Lately noted.)

Tex., Hermleigh—School Board will erect \$45,000 building.

Tex., Ennis—Board of Education, W. O'Banion, Supt., will receive bids until March 30 to erect negro school; 1 story; 9 rooms and auditorium; brick; plans and specifications at office Hix McCannless, Archt.

Va., Abingdon—School Board plans to erect \$150,000 grammar school.

Va., Amherst—Amherst County School Board will erect high school for Elon Magisterial Dist.

Va., Fork Union—Fork Union Military Academy, Col. N. J. Perkins, Prest., will erect buildings to replace Snead Hall and Armory lately noted burned.

Va., Norfolk—Norfolk Academy Trustees, Robt. B. Tunstall, Chmn., purchased 7-acre tract in Pinehurst and will erect administration building, class room building, kitchen and dining room, dormitory, etc.

Stores.

Ala., Bay Minette—Henry D. Moorer will erect store and office building at Hand Ave. and First St.

Ala., Gadsden—Chas. O. Duncan will erect \$15,000 building; 3 stories; 75x105 ft.; brick; cement floors; concrete foundation; tar and gravel roof; metal ceilings; owner builds.

Ala., Tuscumbia—O. D. Clark will erect 2 buildings.

Ark., Pine Bluff—Morley & Son will erect store and office building and motion picture theatre; \$40,000; brick.

Fla., Lakeland—S. H. Collins will erect arcade building on S. Tennessee Ave.; 40x132 ft.; 2 stories; Spanish architecture; hollow tile and marble dash stucco; plate glass display cabinets; 37 shops; H. D. Mendenhall, Archt.

La., Shreveport—Denis Ricou is reported to erect \$300,000 store and office building at Milam and Marshall Sts.; 120x150 ft.; 4 stories; fireproof; terra cotta.

Md., Hyattsville—A. Eugene Burgess will erect brick building at Johnson and Maryland Aves.

Md., Hyattsville—Wm. P. Magruder will erect 2 buildings on east side of Maryland Ave. between Johnson Ave. and Spencer St.; 2 stories; 16x28 ft.; hollow tile; also plans to erect building on north side of Johnson and Maryland Aves.; brick.

Miss., Grenada—A. G. Roane will erect 3 brick stores at Depot and Doake Sts.

Mo., Cape Girardeau—Louis Hecht will erect 4-story building on Main St. to be occupied by branch house of Reliable House Furnishings Co. of St. Louis.

Mo., Kansas City—Berks Investment Co. will erect 2-story store and office building, Westport Ave. and Penn St.

N. C., Rutherfordton—Jno. R. Washburn will erect 2 store rooms; 26x74 ft. each; 2 stories; brick.

Okla., Oklahoma City—Zergler & Cook will erect \$12,000 store, 2617 Classen Blvd.

S. C., Pacolet—R. C. Ellis, Grover, N. C., purchased lot and will erect store building.

Tenn., Memphis—Mrs. Mary Hill Hodgson will erect 10 stores at Madison Ave. and Wellington St.; \$100,000; 186x149 ft.; brick; stone trim; copper and plate glass fronts; Chas. Deas, Archt.

Tex., Dallas—Ira P. DeLoache, Prest., Highland Park Knox Street Merchants' Assn., will erect \$50,000 store, Knox and Travis Sts.; 180x150 ft.; Lang & Witchell, Archts.

Tex., New Braunfels—Mrs. Krause will erect store and office building; 2 stories; reinforced concrete; bids opened March 28; Herbert S. Green, Archt., San Antonio. (Lately noted.)

Tex., San Antonio—Morris Richbook will erect store at Houston and Frio Sts.; 2 stories; reinforced concrete and brick; bids opened March 21; David A. Lown, Archt. (Lately noted.)

Va., Bristol—Bristol Hardware Co., Moore St., will erect building on W. State St.

Va., Bristol—Joe Strauss will erect two 1-story buildings on W. State St.; terra cotta fronts.

W. Va., Fairmont—S. O. Rosser (Agt. for A. E. Brownfield heirs) will convert residence on Adams St. into store and apartments; 2 stories; 36.8x79.6 ft.; brick and cement blocks; \$12,000.

W. Va., Fairmont—John Russo will erect building on Cleveland Ave.; fireproof.

W. Va., Norton—West Virginia Coal & Coke Co., Elkins, will erect store. (See Warehouses.)

Theatres.

Ark., McGehee—T. A. Shea will erect motion picture theatre; \$18,000 to \$20,000.

Ark., Pine Bluff—Morley & Son will erect motion picture theatre. (See Stores.)

La., New Orleans—Lazarus Amusement Co. will erect \$20,000 theatre at Upperline and Laurel Sts.; 1 story; 55x115 ft.; seat 1500; Walter Cook Keenan, Archt., London, Liverpool & Globe Bldg.

Warehouses.

Ala., Robertsdale—Bay Minette Mfg. Co., Bay Minette, will erect warehouse.

N. C., Greensboro—Rucker Bonded Warehouse Corp., P. C. Rucker, Prest., will erect 8 additional compartments to warehouse; \$160,000; 100x300 ft.; 3 stories; brick and concrete; mill construction or concrete floors; concrete foundation; built up roof; sprinkler equipment and possibly 100,000 gal. steel tank on 100 ft. steel tower; J. M. Workman, Raleigh, Archt. Engr., will probably supervise construction; power handling equipment to be installed and designed and purchased by Mr. Workman.

N. C., Mooresville—Mooresville Cotton Mills Co. will erect 2 warehouses. (See Contracts Awarded-Dwellings.)

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

S. C., Timmons—Pepper & Thomas will erect tobacco warehouse; \$11,000; 80x300 ft.

Tex., Gonzales—Gonzales Cement Works will erect warehouse; concrete tile with stucco front.

W. Va., Norton—West Virginia Coal &

Coke Co., Elkins, will erect warehouse, store building, office building, machine shop and general repair shop; \$50,000 to \$60,000.

W. Va., Wheeling—Wheeling Wall Plaster Co., R. Walter Marshall, Prest., will erect \$15,000 warehouse, 27th and Market Sts.; 60x100 ft.; cement and steel.

steam heat; showers; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, D. C., and Durham; Hill & Justice, Contrs., Rutherfordton; P. W. Eskridge, plumbing; steel cells not let. (Lately noted.)

Dwellings.

La., New Orleans—R. O. Jones will erect residence, Nerron Pl. and Short St.; 2 stories; frame; Walter Cook Keenan; Archt., L. L. & G. Bldg.; August Frank, contr. at \$14,725.

Md., Baltimore—O. O. Ellis, Asst. to Pres., Title Guarantee & Trust Co., will erect \$15,000 residence, Millbrook Rd. near Charles St.; 2½ stories; brick; 10 rooms and 3 baths; E. L. Palmer, Jr., Archt., 513 N. Charles St.; L. L. Chalmers, Contr., 36th St. and Roland Ave. (Lately noted.)

Md., Baltimore—Geo. H. Ward, 125 South St., will erect 2-story residence, Wendover Rd. near Underwood Rd.; \$20,000 including site; stone and clapboard; 24x36 ft.; slate roof; hardwood floors; stone foundation; vapor heat; J. M. Downing, Archt., 11 York St.; J. S. Downing, Contr., 2600 Greenmount Ave. (Lately noted.)

Md., Baltimore—Fredk. Denhard will erect \$18,000 residence and garage, Charles St. near Cold Spring La.; 2½ stories; 52x32 ft. and 22x22 ft.; slate roof; E. L. Palmer, Jr., Archt., 513 N. Charles St.; L. L. Chambers, Contr., 36th St. and Roland Ave.

Md., Baltimore—Carl R. McKenrich, 34 U. S. Fidelity & Guaranty Bldg., will erect \$15,000 residence and garage, Lake Ave., north-west of Roland Ave.; 2½ stories; frame; 45.2 x 26.8 ft. and 20x20 ft.; slate roof; hot water heat; Wm. G. Beecher, Archt., 763 Calvert Bldg.; Chas. W. Brown, Contr.

Md., Baltimore—Meyerhoff Co., 447 Equitable Bldg., will erect 7 dwellings, south side Boarman Ave., west of Garrison Ave., 4 at S. W. cor. Garrison and Boarman Aves., and 9 north side of Boarman Ave., west of Garrison Ave.; all 2 stories; brick; 22x34 ft. and 28x42 ft.; hot water heat; \$102,000; Allied Construction Co., Archt.-Contr., 447 Equitable Bldg.

Md., Baltimore—Luther B. Wolf, 3340 Gilman Terrace, will erect 2½-story frame dwelling and garage, South Rd. east of Hill Hop Rd., Mount Washington; 28x34 ft. and 18x20 ft.; steam or hot water heat; \$11,000; R. T. Bond, Archt.; R. W. Shock, Contr. (Lately noted.)

Miss., Greenwood—Mrs. Ruby Stern will erect \$17,000 residence, South Boulevard; 1 story; brick and stucco; stone trim; M. F. May, Contr.

Mo., Bethany—Mark Butler will erect residence, Oakland Ave.; Bud Wilkinson, Contr.; construction begun.

N. C., Charlotte—Dr. Jas. L. Keerans will erect \$11,000 residence, Crescent Ave.; brick and tile; MacEwane Engineering Co., Inc., Contr. (Lately noted.)

N. C., Gastonia—A. G. Mangum will erect \$25,000 residence; 2 stories and basement; frame; White, Streeter & Chamberlain, Archts.; J. Mack Jenkins, Contr.

N. C., Mooresville—Mooresville Cotton Mills Co. will erect 100 or more dwellings; W. H. Davis, Contr.; Thos. F. Walls, contr. for brick work; also erect 2 warehouses.

Okla., Tulsa—C. C. Cole will erect \$45,000 residence, 2120 S. Main St.; Riverside addition; 2 stories and basement; 45x82 ft.; native rock veneer; hardwood floors; concrete foundation; brick walls to grade line; variegated slate roof; hollow fireproof and interior tile; metal ceilings; ornamental terra cotta; W. D. Van Siclen, Archt.; D. Goodal, Contr.;

BUILDING CONTRACTS AWARDED

Apartment Houses.

Fla., Jacksonville—May L. McCoy will erect two 2-story brick veneer flats, Fifth St. near Walnut St.; \$8500 each; Brown Realty Co., Contr.

Fla., Miami—Emma A. Pierson will erect \$20,000 apartment house, S. W. 1st St.; 2 stories; tile and concrete; 12 suites; J. P. Turner, Contr.

Tex., Galveston—American Realty Co., Shern Moody, American Nat. Ins. Co., Vice-Pres., will erect fireproof apartment house, 30th St. and Avenue J.; \$100,000; 3 stories; brick and tile; stone trim; 21 suites; Irving G. Harris, Archt.; Fred B. Chambers, Contr. (Lately noted.)

Va., Norfolk—Eldon Manor, Inc., Dr. Albert E. Wilson, Pres., will erect \$500,000 apartment house, upper Granby St. overlooking Lafayette River; 125½ x 137½ ft.; 78 suites; stores on first floor; Moser & Gutzwiller, Archts., Dickson Bldg.; Graham & Co., Contrs., Arcade Bldg.

Association and Fraternal.

Ga., Americus—Dr. H. R. Butler, Grand Master, Colored Masons, Odd Fellows Bldg., let contract to Service Engineering & Construction Co., 180 Auburn Ave., both Atlanta, to erect boys' dormitory; 40x100 ft.; 3 stories; ordinary construction; vacuum 2-pipe system steam heat; \$35,000; plans by Contr.

Tex., Houston—Gray Lodge No. 329, Norman Atkinson, Chmn. Bldg. Comm., and Temple Lodge No. 4, G. W. Foster, Chmn. Bldg. Comm., will erect \$250,000 temple, Fannin St. and Clay Ave.; 3 stories; fireproof; stone; elevators; air washers and ventilators; Alfred C. Finn, Archt.; Tom Tellepsen, Contr.; Allen T. Cook, electric wiring; Lee Rogerson, plumbing; Dixie Heating & Ventilating Co., heating and ventilating. (Previously noted.)

Bank and Office.

D. C., Washington—Potomac Electric Power Co. will erect \$215,000 addition to office building; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington and Ourham, N. C.; Parsons & Hyman, Contrs., Southern Bldg.

Fla., Miami—Davenport & Rich Investment Co., Thos. S. Davenport, Pres., P. O. Box 1999, will add 7 stories to present 1-story building, 214 N. E. 2nd Ave.; \$140,000; 60x75 ft.; reinforced concrete and hollow tile; terrazzo and concrete floors; hollow fireproof and interior tile; metal doors; mail chutes; ventilators; steel sash and trim; wire glass; 2 Otis elevators; 90 additional offices; Hampton & Reimert, Archts., Bedford Bldg.; Halsema Bros., Contrs., Republic Bldg.

Md., Baltimore—Canton Co., Commerce and Water Sts., will erect \$100,000 office building, N. E. cor. South and Water Sts.; 4 stories with provision of 4 additional stories later if necessary; fireproof; brick; marble trim; Smith & May, Archts., Calvert Bldg.; West Construction Co., Contr., 907 American Bldg. (Lately noted.)

Tenn., Johnson City—Tennessee National bank will erect \$100,000 building; 2 stories and mezzanine; Hoggson Bros., Archts.-Contrs., 485 Fifth Ave., New York.

Tex., Houston—First National Bank, J. T. Scott, Prest., will erect 9-story addition to building, Franklin and Fannin Sts.; \$800,000; 125x115 ft.; marble stairway; elevator; vaults; safety deposit boxes; Sanguinet, Staats & Gottlieb, Archts.; Central Contracting Co., Contr. (Previously noted.)

Churches.

Fla., Jacksonville—St. Paul's Catholic Church, Rev. Father Barry, Pastor, will erect \$70,000 unit of \$100,000 plant, Forbes and Accosta Sts.; Italian renaissance type; 105x62 ft.; faced with rough face brick; auditorium on first floor, classrooms on second and third; Gerald Barry, Archt., Chicago; Marsh & Saxelbye, Supervising Archts.; G. W. Hessler, Inc., Contr.; both Jacksonville.

Tenn., Chattanooga—Second Presbyterian Church, W. 7th and Pine Sts., C. V. Brown, Chmn. Bldg. Comm., will direct \$60,000 to \$70,000 Sunday school addition; fireproof; limestone; 3 stories including basement; 118x80 ft.; accommodate 650; gymnasium, shower bath, kitchen, etc.; J. D. Alsop, Archt., James Bldg.; Geo. Becking & Son, Contrs.

Tex., Austin—First Methodist Church, R. W. Finley, Chmn. Bldg. Comm., will erect steel and concrete building, 12th and Colorado Sts.; 88x128 ft.; 3 stories; Sanguinet, Staats & Hedrick, Archts.; Fort Worth; J. F. Johnson, Austin, contr. for first floor at \$87,000; completed building to cost \$225,000. (Contr. lately incorrectly noted.)

Tex., Fort Worth—First Baptist Church, Dr. J. Frank Norris, Pastor, will enlarge auditorium to accommodate 1500 additional; lately noted; 100x200 ft.; 3 stories; wood floors; rock foundation; tar and gravel roof; O. H. Atkinson, Archt., 806 Taylor St.; F. K. Muse, Dagget St., contr. at \$70,000; heating, plumbing and electrical work not let. (See Mch. Wanted—Search Light.)

Va., Madison Heights—Madison Heights Baptist Church, Rev. J. I. Caudle, Pastor, will erect \$30,000 brick veneer building; Herbert L. Cain, Archt., 12 N. 9th St., Richmond; F. L. Woody, Contr.

Va., Richmond—Baptist Covenant Church will erect \$23,000 building, 2228 Venable St.; brick; 3 stories; 75x50x50 ft.; concrete foundation; wood floors; slag roof; hot water heat; H. L. Cain, Archt., 12 N. 9th St.; J. W. Atkinson, Contr., Lyric Bldg.

City and County.

Md., Baltimore—Stadium—Park Board, J. Cookman Boyd, Prest., will erect entrance building at Baltimore Stadium; Grecian type; brick and stucco; 2 stories; colonnades; Josias Pennington, Archt., 330 N. Charles St.; R. B. Mason, 306 W. Madison St., contr. at \$164,431, not including low pressure steam heat, lighting and plumbing. (Lately noted.)

N. C., Rutherfordton—Jail—Rutherford County will erect \$35,000 to \$40,000 jail, Washington St.; 3 stories; electric lights;

Jas. J. Joyce, plumbing and hot water heat; Breno & Co., painting and decorating; electrical work in general contract; basement completed; 7 mantels, fixtures and hardware contracts not let. (Lately noted.)

S. C., Chester—Baldwin Cotton Mills, Alex. Long, Prest., will erect 12 four-room dwellings; \$15,000; Piedmont Contracting Co., Contr.

Tenn., Tullahoma—B. H. Wilkins let contract to erect 4 concrete duplex dwellings.

Tex., El Paso—E. M. Bray will erect \$15,000 residence, 903-05 W. Yandell Blvd.; Moorish type; tile baths; tile floor in breakfast room; cedar lined closets; built-in book-cases to accommodate 1000 volumes; electric washer in laundry; roof garden; hot water heating plant, fireproof double garage and work room in basement; Lehmann & Wuerhmann, Archts.; J. J. Watkins, Contr.; Elliott Engineering Co., heating; Geo. Mattice, plumbing; Independent Electric Co., electrical work.

Va., Richmond—Geo. Hinds, 1020 Floyd Ave., will erect 2 brick dwellings; 2 stories; brick foundations; tin roofs; wood floors; electric lights; \$14,000; plans by owner; W. E. Purcell, Contr., 104 N. 8th St.

Va., Richmond—L. S. Jones, 3140 Grove Ave., will erect 2-story dwelling, 3310 Grove Ave.; 24x40x22 ft.; brick foundation; tin roof; wood floors; electric lights; hot water heat; plans by owner; Delaney & Gann, Contrs., 1915 Grove Ave.; also \$9000 brick dwelling, 3312 Grove Ave.

Va., Richmond—F. H. Nott, 2808 Porter St., will erect 2 stucco dwellings, 801-03 Edge Hill Ave.; 2 stories; 28x32x28 ft.; cinder block foundations; wood floors; slate roofs; hot water heat; \$14,000; plans by owner; W. D. Hunt, Contr., 104 Graham Rd.

Government and State.

Va., Richmond—Office Building—Board of Bldg. Commrs., Jas. P. Jones, Secy., 1418 E. Main St., will erect 4 additional stories to 8-story office building under construction on Capitol Square; \$350,000; 180 x 150 x 150 ft.; steel and brick; concrete foundation; gypsum and wood floors; steam heat; slag roof; Carneal & Johnston, Archts., Richmond; Jas. Posey, Engr., 11 E. Pleasant St., Baltimore; John T. Wilson Co., Inc., Contr., Mutual Bldg., Richmond. (Previously noted.)

Hospitals Sanitariums, Etc.

Tex., Amarillo—Potter County, R. C. Johnson, Judge, Commr's. Court, will erect hospital, brick nurses' home and frame tubercular cottage; total about \$250,000; hospital, Y-shape; 3 stories; 35x140 ft.; composition floors; reinforced concrete faced with brick and tile; concrete foundation; built-up roof; conduit system lights; passenger elevator and dumb waiter; Guy A. Carlander, Archt.; V. E. Ware Construction Co., Contr., El Paso. (Previously noted.)

Hotels.

Fla., Miami—Jno. H. Bowlin will erect \$25,000 hotel on Collins Ave.; 2 stories; 15 suites; stucco; Jno. L. Pope, Contr.

Fla., Miami Beach—Peter M. Chamberlain, Marlborough Hotel, will erect \$480,000 hotel in Fairview subdivision to be known as Pelican Hotel; Moorish type; 4 stories; fireproof; hollow tile and stucco; terrazzo, hardwood, concrete and wood floors; tile roof; metal doors; wire glass; August Geiger, Archt., Miami; R. B. Warner, Asso. Archt., Springfield, Mass.; P. J. Davis, Contr., Miami. (Lately noted.)

Miss., Jackson—I. C. Enochs Estate (I. C. Enochs and Ed. Flowers, executors), will

erect \$1,000,000 hotel on site of Edwards Hotel; 12 stories and basement; 135x146 ft.; 424 rooms; fireproof; steel and reinforced concrete faced with brick and stone; Wm. T. Nolan, Archt.-Engr., 1000 Canal-Commercial Bldg., New Orleans; J. W. Billingsley, Const. Engr.; Foundation Co., Contr., 120 Liberty St., New York; (L. F. Giblin, local representative; Grunewald Hotel) Virginia Bridge & Iron Co., Roanoke, Contr. for 600 tons structural steel (Nolan & Torre lately incorrectly noted as architects.)

Va., Staunton—Stonewall Jackson Hotel Corp., A. T. Moore, Prest., will erect hotel, Market and Kalorama Sts.; \$425,000; 5 stories; 75x146 ft.; 120 rooms with bath; brick, concrete and steel; fireproof floors; concrete foundation; built up asphalt roof; hollow fireproof and interior tile; metal doors; wire glass; ventilators; 2 passenger elevators, traction type; H. L. Stevens & Co., Archts.-Contrs., 522 Fifth Ave., New York. (Lately noted.)

Miscellaneous.

Mo., St. Joseph—Clubhouse—St. Joseph Country Club will erect \$75,455 clubhouse to replace structure noted burned; Walter Boschen, Archt.; Sam Hotchkiss, Contr. (Lately noted.)

Okl., Guthrie—Home—Grand Lodge, A. F. & A. M., of Oklahoma will complete \$425,000 Masonic Orphans' Home; 6 buildings; 2 stories; cement floors; concrete foundation; Hawk & Parr, Archts., Oklahoma City; Campbell & Price, Contrs., W. Main St., Oklahoma City. (Lately noted.)

Railway Stations, Sheds, Etc.

Tenn., Covington—Illinois Central R. R., F. L. Thompson, Ch. Eng., Chicago, will erect passenger and freight depots; \$60,000; Jos. E. Nelson & Sons, Contrs., 3240 S. Michigan Ave., Chicago. (Previously noted.)

Schools.

La., New Orleans—Tulane University will erect buildings on Baronne St. to replace structures lately noted burned; \$37,699; Favrot & Livandais, Archts., Hibernia Bank Bldg.; Chris Larsen & Sons, Contrs., Canal Commercial Bldg.

Md., Baltimore—Johns Hopkins University Dr. Frank J. Goodnow, Prest., will erect \$500,000 chemical laboratory at Homewood; U shape; fireproof; 3 stories; 148.4x159.9 ft.; steel and reinforced concrete; colonial brick; slate roof; cement floors; steam heat; will install new equipment; Carrere & Hastings, Archt., 45th St. and Vanderbilt Ave., New York; Chas. L. Reeder, Mech. Engr., 916 N. Charles St., Baltimore; Consolidated Engineering Co., Contr., Calvert Bldg., Baltimore. (Lately noted.)

Mo., Columbia—Alpha Phi Sorority of University of Missouri will erect \$30,000 chapter house; English style; Berry McAlester, Contr.

Mo., Golden City—School Board will erect \$30,000 building; 2 stories and basement; 10 classrooms, laboratories, study hall, gymnasium and auditorium to seat 500; Earl Hawkins & Co., Archts., Springfield; Walter Kelly, Contr., Eldorado Springs. (Lately noted.)

N. C., Sparta—Alleghany County Board of Education will erect 8-room school; \$28,791; auditorium seat to 600; brick; asphalt shingle roof; steam heat; A. L. Barbour, Contr., Newland. (See Machinery Wanted—Electrical Work; Heating Plant; Plumbing Material.)

S. C., Cheraw—School Board, R. T. Caston, Chmn., will erect high school; \$46,000; W. J. Wilkins & Co., Archts., Florence; J. F. McBride, Contr.; Bryce Plumbing & Heat-

ing Co., Florence, heating and plumbing, \$5681. (Lately noted.)

Tenn., Dandridge—Jefferson County Board of Education will erect school at Kansas; Clarence Ailey, Contr. (Lately noted.)

Tex., McKinney—School Board, L. A. Scott, Prest., will erect \$63,000 junior high school; 2 stories; brick, concrete and steel; concrete foundation; Sparger & Peters, Archts., Bonham; Robt. H. Brown, Contr., McKinney; A. C. Rogers, McKinney, plumbing and heating, \$10,000.

Tex., San Antonio—School Board will erect 5 junior high schools; Phelps & Dewees, Archts.; Jay Dupuy, contr. at \$444,495 for structures at Morales, Josephine, Pine and San Pedro sites; Berkshire School not warded; plumbing as follows: Jud & Ormund, \$10,272 for Morales School; Open Shop Plumbing Co., \$9829 and \$9297 for Josephine and San Pedro Schools; A. H. Shafer, \$8673 for Pine St.; electric work: Wright

Bros., \$7854, \$9033 and \$9022 for Josephine, San Pedro and Morales school; Mr. Schroeder, 7200 Pine St. School; heating: A. H. Shafer, \$9915, \$11,936 and \$11,936 for Morales, Josephine and San Pedro schools; Jud & Ormund, \$9981 for Pine St. School. (Lately noted.)

Stores.

Ala., Hanceville—Warren & Gladney will erect store; brick and tile; J. P. Duren, Contr.

Ark., Pine Bluff—Hall Grocery Co. will erect building at 8th and Main Sts.; \$15,000; brick; W. L. Carr, Contr.

Fla., Plant City—P. A. Merrin will erect 3 stores at Haines and Palmer Sts.; 1 story; brick; Chester C. Carlton, Contr.

Ga., Macon—A. S. Hatcher Co. will erect building at 3rd and Plum Sts.; R. H. Smallings Sons, Contr.

N. C., Forest City—George Jones will erect 2-story brick building on Depot St.; contract let.

N. C., Gastonia—Loftin & Co. will erect building for store, printery and offices; \$25,000; 2 stories and basement; 40x125 ft.; White, Streeter & Chamberlain, Archts.; Brown-Harry Co., Contrs.

Tex., Gonzales—J. A. Efron will erect building to replace burned store; 2 stories; brick; M. A. Wade, Contr.

Va., Norfolk—D. Pender will erect \$75,000 store and office building, Cove and Bank Sts.; 46x87 ft.; 4 stories and basement; fireproof; brick; gravel on concrete slab roof; concrete floors; reinforced concrete foundation; interior tile; metal ceilings; ornamental terra cotta; steel sash and trim; wire glass; ventilators; electric elevators; Wm. Newton Diehl, Archt.; Logan McCloud, Contr. (Lately noted.)

W. Va., Northfork—C. F. Lambert and others will erect \$35,000 building for Clark Department Store, Inc.; 3 stories and basement; 44x80 ft.; brick and hollow fireproof tile; hardwood floors; concrete foundation; composition roof; metal ceilings; electric passenger elevator; L. P. Richards, Archt. Crumpler; Smith Bros., Contrs., Bluefield. (Lately noted.)

Warehouses.

N. C., Roxboro—Jno. F. Reams, Main St., has contract to erect \$12,000 warehouse for joint stock company; 1 story; 100x275 ft.; frame and structural steel; tin roof; metal frames for skylights; wood floors; brick foundation; wire glass; plans by Mr. Reams. (Lately noted.)

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Architectural Catalogs.—James P. Baugh, Archt., Waco, Texas—Catalogs pertaining to architecture.

Automobile Tire Equipment.—Pittman Rubber Co., 218 Western Indemnity Bldg., Dallas, Texas—Automobile tire equipment including vulcanizers, tire building mchy., mills and calenders.

Boiler, etc.—H. W. Dexter (Mchy. Dealers) Box 665, Jacksonville, Fla.—150 H. P. high pressure boiler; also two 25 or 30 H. P. DCDD hoists with boilers.

Boiler.—Samuel B. Coffin, High Point, N. C.—Re-built or second-hand 50 to 60 H. P. boiler.

Boiler (Tubular).—Manchester Board & Paper Co., Richmond, Va.—Second-hand return tubular boiler, 125 or 150 H. P., stationary.

Boilers.—Sewerage & Water Board, A. G. Moffat, Secy. New Orleans, La.—Bids until April 26 to furnish 1500-1800 H. P. water tube boilers; specifications obtainable at Room 303, No. 526 Carondelet St.

Brass Plates.—Jennings Automatic Dump Body, Inc., Z. V. White, Gen. Mgr., Roanoke, Va.—Brass plates.

Brick.—See Building Materials.

Brick.—Dalton McBee, Secy. Greenwood Compress & Storage Co., Greenwood, Miss., One million brick.

Brick Mchy.—J. L. Morgan, Mayor, Pikeville, Ky.—Brick mchy. for street and alley paving.

Brick (Paving).—C. Perry Snell, St. Petersburg, Fla.—In market for 100,000 2½-in. thick kiln run shale paving brick.

Brick (Paving).—Duval County Comms., Frank Brown, Clk., Jacksonville, Fla.—Bids until April 2 to furnish one car of No. 1 and No. 2 repressed paving brick, 3½x4x8½-in., delivered f. o. b. at Three-Mile spur, near S. A. L. Ry. shops; will consider used bricks, submit samples with bid.

Brick Stack.—Comms. of Public Works, L. A. Walker, Summerville, S. C.—Blue prints for brick stack, 80 ft. high, to take care of two 200 H. P. boilers.

Bridge Construction.—State Highway Dept., Jackson, Miss.—Bids until April 2 to build 2 steel and concrete bridges, two 80-ft. steel spans between Meridian and Laurel; H. C. Dietzer, State Highway Engr. (Lately noted.)

Bridge Construction.—Hinds County, Bd. of Supvrs., Jackson, Miss.—Bids until Apr. 5 to construct superstructure of overhead bridge on F. A. Proj. No. 115, being part of State Trunk Road, between Jackson and Clinton; plans, etc., on file, and from H. C. Dietzer, State Highway Engr.

Bridge Construction.—Louisiana Highway Comsn., Raymond Bldg., Baton Rouge, La.—Bids until Apr. 12 to build 2 bridges as follows: On Colfax-Natchitoches Highway, over Little Natches Creek, 80-ft. steel truss span with concrete floor, and 20-ft. concrete girder approaches on each end; 152 lin. ft. creosoted pile trestle approach to steel truss span over Saline Bayou, F. A. Proj. 104-B plans, etc., on file.

Bridge Construction.—State Highway Comsn., Raymond Bldg., Baton Rouge, La.—Bids until Apr. 12 to build or repair 10 bridges as follows: Acadia Parish, highway bridge over Mermentau River, known as Mermentau River Bridge, F. A. Proj., 122; 2 sections, A, vertical lift layout, or B, center bearing swing layout; also in Madison Parish, on Tallulah-Delhi Highway,

three 100-ft. steel truss spans, two 80-ft. steel truss spans, 50-ft. plate girder span, 481 lin. ft. creosoted timber trestle, 16x5-ft. concrete box culvert, and re-floor 120-ft. bridge; plans, etc. on file.

Bridge Construction.—Noxubee County, Board of Supvrs., Jno. A. Tyson, Chancery Clk., Macon, Miss.—Bids until Apr. 2 to build 2 wooden bridges as follows: Over ditch on Binnsville and Shuqualak road, about 1 mi. from southeast corner of county; over Gully on Shuqualak and Gholson road, about 8 mi. west of Shuqualak; plans, etc. on file.

Bridge Construction.—State Highway Dept., Jefferson City, Mo.—Bids until March 24 to build 38 bridges as follows: Andrew and Holt Counties, on road from Oregon to Savannah, State Proj. Route 1, Sec. 21, N. R. Sack, Div. Engr., Ballinger Bldg., St. Joseph, Mo.; Barton County, on road from Golden City to Lamar, State Proj., Route 36, Sec. 6, Ray Dunlap, Div. Engr., Frisco Bldg., Joplin, Mo.; Callaway County, on road from Jefferson City to Columbia, State Proj., Route 7, Sec. 43, R. W. Hodson, Div. Engr., Jefferson City; Carroll County, on road from Waverly to Carrollton, State Proj., Route 3, Sec. 35, A. C. Lingley, Div. Engr., Reliance Bldg., Kansas City, Mo.

Clay County, on road from North Kansas City to Liberty, State Proj., Route 10, Sec. 1, A. C. Lingley, Div. Engr.; Holt County, on road from Oregon to Savannah, State Proj., Route 1, Sec. 21, N. R. Sack, Div. Engr.; Jefferson County, on road from St. Louis to Festus, State Proj., Route 9, Secs. 71, 72 and 73, S. M. Rudder, Div. Engr., Bristol Bldg., Webster Groves, Mo.; Lawrence County, on road from Phelps to Halltown, State Proj., Route 14, Secs. 9 and 10, Ray Dunlap, Div. Engr.; McDonald County, on road from Neosho to Anderson, State Proj., Route 1, Sec. 108, Ray Dunlap, Div. Engr.

Pemiscot County, on road from Portageville to Arkansas State line, State Proj., Route 9, Sec. 142, Frank B. Newton, Div. Engr.; Phelps County, on road from St. Louis to Springfield, State Proj., Route 14, Sec. 48A, H. P. Mobberly, Div. Engr., Woodruff Bldg., Springfield; Pulaski County, on road from Waynesville to Arlington, State Proj., Route 14, Sec. 46, H. P. Mobberly, Div. Engr.; St. Clair County, on road from Appleton City to Henry County line, State Proj., Route 24, Sec. 13, Ray Dunlap, Div. Engr.

Schuyler County, on road from Lancaster to Kirksville, State Proj., 7, Sec. 3, and on road south of Lancaster, State Proj., Route 7, Sec. 6, A. R. Towse, Div. Engr., Howe Bldg., Macon; Stoddard County, on road from Fisk to Dexter, State Proj., Route 16, Sec. 83, Frank B. Newton, Div. Engr.; Washington County, on road from De Soto to Potosi, State Proj., Route 21, Sec. 4, S. M. Rudder, Div. Engr.

Bridge Construction.—State Highway Dept., Jefferson City, Mo.—Bids until March 24 to build 15 bridges as follows: Bollinger County, on road from Fredericktown to Jackson, State Proj., Route 9, Sec. 101; Cape Girardeau County, on road west of Jackson, State Proj., Route 9, Secs. 111 and 112; Green County, on road west of Springfield, State Proj., Route 14, Secs. 11 and 12; Madison County, on road east of Fredericktown, State Proj., Route 9, Sec. 98; Saline County, on road from Lafayette County line east, State Proj., Route 2, Secs. 18, 19, 20, 21.

Bridge Construction.—Stokes County Highway Comsn., Danbury, N. C.—Bids until Apr. 16 to erect 4 steel bridges with concrete floors; N. S. Mullican, Municipal and Highway Engr., Walnut Cove.

Bucket (Drag Line).—Old Dominion Sand & Gravel Co., Richmond, Va.—Second-hand 2 yd. Class C Page drag line bucket for handling gravel.

Building Material.—Mr. McAvoy, care Loyola Construction Co., Inc., 2600 Liberty Hts. Ave., Baltimore, Md.—Building Material for 13 dwellings.

Building Material.—M. A. Long Co., Horn Bldg., Guilford Ave. and Fayette St., Baltimore, Md., is estimating on construction of automobile shed and yard at 21st and Oak Sts. and desires sub bids and estimates until March 28.

Building Materials.—Greensboro Realty & Lumber Co., S. J. Marley, Secy., Greensboro, N. C.—Builders hardware, lime, cement, sash doors, paints, oils and varnishes, lumber and shingles.

Building Materials.—Alf Buck, Construction Dept., Roanoke Tire & Rubber Co., Inc., 512 Terry Bldg., Roanoke, Va.—Prices on brick, steel, lime and cement for 80x300-ft. 3-story factory building.

Canning Machinery.—Harriman Cannery Co., A. K. Davis, Secy., Harriman, Tenn.—Data and prices on canning machinery.

Canoes, etc.—T. Perry Snell, St. Petersburg, Fla.—To purchase rowboats and canoes.

Cars (Dump).—Duncan Machinery Co., (Mchy. Dealers) Box 265, Knoxville, Tenn.—Dealers prices on second-hand 1-yd. and 1½-yd. dump cars, 36 gauge and wider.

Cars (Mine).—High Carbon Coal Corp., Pulaski, Va.—Electric pump mine cars.

Castings, etc.—U. S. Engineer Office, Florence, Ala.—Bids until April 3 to furnish head-gate track, screen track, seat castings, vent outlet castings, together with bell mouth castings, etc. for power house section of Wilson Dam.

Cement.—See Building Materials.

Chain (Brass, Bronze, etc.).—Lorick & Lowrance, Inc., Columbia, S. C.—To correspond chain, same size as ½-in. coil chain.

Clearing of Right-of-Way.—Marion L. Coons, Secy., Board of Drainage Comms., Fayette, Ala.—Bids until April 13 for clearing right of way to main canal and laterals of Fayette and Lamar County Drainage Dist., No. 1; work consists of clearing approx. 50 mi. right of way embracing about 800 acres; plans at office of Judge of Probate Fayette County, Ala., or Guy A. Hary, Supt. of Construction, Fayette.

Compressor (Air), etc.—Port Comms., Suite 200 New Court Bldg., New Orleans, La.—Bids until April 5 to furnish air compressor and receiver for the public grain elevator; blanks at office of Supvrs. of Purchases, 1 Canal St.

Cotton Mill Equipment.—Pittman Rubber Co., 218 Western Indemnity Bldg., Dallas, Texas—Cotton mill equipment exclusive of boilers, motors and engines; second-hand mill of approx. 5000 spindles will suffice.

Crane.—Harvey Co., (Mchy. Dealers) 113 South St., Baltimore, Md.—10 ton overhead crane, 60 to 70 ft. span with motors.

Crane (Locomotive).—Uvalde Co., Box 902, San Antonio, Tex.—Locomotive crane to handle one or two yd. clamshell bucket with about 40 ft. boom.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Crane (Locomotive).—Birmingham Engine & Machinery Corp., Birmingham, Ala.—To purchase 15 to 20-ton, 8-wheel used locomotive crane with 50-ft. boom.

Cutter (Green Food).—F. T. Agricola, Gadsden, Ala.—Prices on green food cutter.

Derricks, etc.—H. W. Dexter (Mchy. Dealers) Box 665, Jacksonville, Fla.—One each 10, 15 and 20 ton steel guy derrick; also 30 H. P. skeleton hoist with swinger for derricks; used equipment.

Derrick (Stiff Leg).—D. C. Elphinstone, (Mchy. Dealer) 408 Continental Bldg., Baltimore, Md.—5 ton stiff leg derrick.

Dredging.—U. S. Engineering Office, 329 Custom House, New Orleans, La.—Bids until April 9 for dredging intercoastal waterway between Bayou Black and Bayou Terre Bonne, La.

Dry Kilns.—J. V. Fleming, Mgr., Veneered Door Products Corp., 4229 Duncan Ave., St. Louis, Mo.—Prices on dry kilns.

Dust Laying Material.—City Comsn., E. P. Owen, Jr. Secy., Room 13, City Hall, Jacksonville, Fla.—Bids until April 5 for one carload of material used for dust laying material on shell, ilmerock and macadam roads; state prices in carload lots f. o. b. Jacksonville; reserve right to purchase additional cars at price stated; W. E. Shedd, City Engr., Main and Orange Sts.

Dyeing Machinery.—See Textile Machinery.

Electric Bell System.—District Comms., Room 509 District Bldg., Washington, D. C.—Bids until March 28 to furnish and install electric light and bell system in Shaw Junior High School.

Electrical Equipment, etc.—Cama, Norton & Co., 11 Ephinstone Circle, Bombay, India.—Catalogs from and correspondence with mfrs. of electrical and general engineering equipment.

Electrical Work.—A. L. Barbour, Sparta, N. C.—Electrical work on 8-room school.

Engine.—Samuel B. Coffin, High Point, N. C.—Re-built or second-hand 35 to 40 H. P. engine.

Engine.—Youngsville Sugar Co., Inc., Dr. R. O. Young, Gen. Mgr., Youngsville, La.—225 H. P. crude oil engine with 200 K. V. A., 440 volts, direct connected.

Engine (Uniflow, Condensing).—District Comms., Room 509 District Bldg., Washington, D. C.—Bids until April 16 to furnish and deliver at Dist. pumping station, Water Dept., one uniflow condensing engine.

Engines.—Harvey Co., (Mchy. Dealers) 113 South St., Baltimore, Md.—7 x 10 double cylinder, double drum hoisting engines, tiger wood, National or Mundy make.

Engines (Gas and Oil).—Herbert Oil Co., 359 Majestic Bldg., Fort Worth, Tex.—Correspondence with manufacturers of gas and oil engines.

Ferro-manganese, etc.—Graham Furnace Corp., Eli Bean, Secy., Winchester, Ky.—After June 1, ferro-manganese and spiegel-essen.

Filling Machine.—Henard Mayonnaise Co., 514 N. 3rd Ave., Nashville, Tenn.—Machine used for filling a pickle relish.

Fire Alarm System.—City of Wichita, Kan. Earl Elliott, City Mgr.—Bids until April 9 for fire alarm system.

Forage.—Marine Corp., Quartermasters Dept., Washington, D. C.—Bids until March 28 to furnish timothy hay, white oats, alfalfa mixed horse feed, yellow or white corn, and wheat bran; delivery to various posts and depots of U. S. Marine Corp.

during months of April, May and June, 1923; Sch. 367.

Furniture (Office, Steel).—E. F. Ward, R. F. D., 34, Trumansburg, N. Y.—To purchase pressed steel office furniture, especially fire proofed.

Games (Water Sport) and Equipment.—F. G. Stauffer, Gen. Mgr., Eureka Supply Co., Volunteer Bldg., Chattanooga, Tenn.—Games and devices for water sports, such as polo, basket ball and merry-go-round.

Gasoline, etc.—Marine Corps, Quarter master Department, Washington, D. C.—Bids until March 24 to furnish gasoline, kerosene and fuel oil to various marine posts and depots, during period April to June 30, 1923; Sch. 366.

Glue (Cold).—J. V. Fleming, Mgr., Veneered Door Products Corp., 4229 Duncan Ave., St. Louis, Mo.—Prices on cold glue.

Gravel.—Louisiana Highway Comsn., Raymond Bldg., Baton Rouge, La.—Bids until Apr. 10 for 5413 cu. yds. washed gravel, and 10,824 cu. yds. sand clay gravel, containing not less than 40 per cent stone, or as alternate, 16,237 cu. yds. sand clay gravel containing not less than 60 per cent stone, for surfacing Proj. 91, Sec. B, Madison Parish; also 10,070 cu. yds. washed gravel and 20,140 cu. yds. sand clay gravel containing not less than 40 per cent stone, or as alternate, 30,210 cu. yds. sand clay gravel containing not less than 60 per cent stone, for surfacing Proj. 110, Sec. B, Lincoln Parish; plans, etc., on file; J. M. Fourmy, State Highway Engr.

Hammer (Steam).—D. C. Elphinstone (Mchy. Dealer) 408 Continental Bldg., Baltimore, Md.—Vulcan steam hammer.

Hardware.—See Building Materials.

Heating Plant.—Dr. Julian B. Burruss, Prest., Virginia Polytechnic Institute, Blacksburg, Va.—Bids until April 3 for general improvements to heating equipment, etc. for Polytechnic Institute; Wiley & Wilson, Const. Engr., Lynchburg, Va.

Heating Plant.—A. L. Barbour, Sparta, N. C.—Heating plant for 8-room school.

Hoist.—See Boiler, etc.

Hoist.—D. C. Elphinstone (Mchy. Dealers) 408 Continental Bldg., Baltimore, Md.—3 drum 9x10 hoist, with or without boiler.

Hoist (Skeleton).—W. H. Dexter (Mchy. Dealers) Box 665, Jacksonville, Fla.—30 H. P. skeleton hoist with swinger for derricks.

Hose (Fire).—City of Nashville, Tenn., Percy Sharpe, Mayor—Bids opened March 23 to furnish fire department with \$4000 worth of 2½-in. cotton rubber lined fire hose with brass Gilmor couplings.

Laundry Machinery.—Max Stern, Prest., American Laundry Co., 1720 2nd Ave., Birmingham, Ala.—Prices on laundry mchy.

Lime.—See Building Materials.

Locomotives.—Barry & Elder, 30 N. Michigan Ave., Chicago, Ill.—Two 10 ton, trolley type, double end control, 500 volt, 42-in. gauge, used locomotives.

Lumber.—Dalton McBee, Secy., Greenwood Compress & Storage Co., Greenwood, Miss.—725,000 ft. lumber.

Lumber.—Supt. of Light Houses, Baltimore Md.—Bids until March 29 for 66,112 ft. B. M. L. L. yellow pine lumber, impregnated with creosote oil.

Lumber.—Port Comms., J. H. Walsh, Gen. Mgr., New Court Bldg., New Orleans, La.—Bids opened March 22 to furnish approx. 120,000 br. B. M. untreated yellow pine, in various dimensions; S. P. A. specifications; also 85,200 ft. B. M. creosoted lumber, as per Dock Board specification.

Lumber.—J. V. Fleming, Mgr., Veneered Door Products Corp., 4229 Duncan Ave., St. Louis, Mo.—Prices on lumber.

Lumber Mill Outfit (Portable Saw).—J. Walter Wright Lumber Co., Box 16, Bristol, Tenn.—To purchase lumber mill outfit, consisting of boiler and 25 H. P. engine, complete for portable mill; delivery at Dunlap, Tenn.

Lumber and Shingles.—See Building Materials.

Mining Machinery.—High Carbon Coal Corp., Pulaski, Va.—Bids open April 15 on Mining mchy.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, Gen. Purchasing Officer, Washington, D. C.—Bids until April 5 to furnish steel, locomotive wheel, iron for steel rope, iron and steel pipes, gasoline pumps, watt hour meters, motors, steel conduits, white hard horn fibre, varnished silk, spark plug, vacuum tubes, waffle irons, metal polish, glass, oars, grommets, insect screening, wire lathe, poultry netting, paints, varnishes, linseed oil, asphalt cement, etc. Blank forms and information (Circular 1520) on application to Panama Canal; Asst. Pur. Agts., at 24 State St., New York, 611 Gravier St., New Orleans, and Fort Mason, San Francisco, Cal.; U. S. Engrs. office throughout the country.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, Gen. Purchasing Officer, Washington, D. C.—Bids until April 3 to furnish: steel springs, files, switches radion condensers, cable end bells, porcelain knobs, fire clay brick, brass melting crucible, china, enamel and aluminum ware, drinking glasses, paints, putty, fish paper, illuminating oil. Blank forms and information (Circular No. 2317) on application to offices of Panama Canal, Asst. Purchasing Agts., at Fort Mason, San Francisco.

Motor Generator Set.—Sam'l T. Williams, Engr., 223 N. Calvert St., Baltimore, Md.—3 phase, 60 cycle, 220 volt, A. C. motor and 220 volt, D. C. generator for motor generator set; immediate delivery.

Motors.—J. V. Fleming, Mgr., Veneered Door Products Corp., 4229 Duncan Ave., St. Louis, Mo.—Prices on motors.

Motors, etc.—Youngsville Sugar Co., Inc., Dr. R. O. Young, Gen. Mgr. Youngsville, La.—Four 5 H. P. motors; one filter press pump and motor for 1000 ton capacity; one 7½ H. P. motor for magma pump; one 30 H. P. motor.

Oil.—J. H. Hickman, Mayor, Owensboro, Ky.—Bids until Apr. 2 for 220,000 gals. of asphaltic street oil; plans, etc. from E. B. Shifley, City Engr.

Overall Machinery, Etc.—E. S. Yarborough, Prest., Henderson Hosiery Co., Henderson, N. C.—Data and prices on equipment for the mfr. of overalls and work shirts.

Paints, etc.—Greensboro Realty & Lumber Co., S. J. Marley, Secy., Greensboro, N. C.—Paints, oils, varnishes, etc.

Paper Mill Jacketing.—See Printers Blankets, etc.

Paving.—City, J. H. Schoepf, Pur. Agt., Asheville, N. C.—Bids until March 30 to lay following paving: 23,000 yds. 6-in. concrete; 11,000 yds. asphalt paving on 7-in. concrete base; 16,000 yds. asphaltic concrete or bitulithic, on 5-in. concrete base; plans, etc., from B. M. Lee, City Engr.

Paving.—City, Board of Public Affairs, Texarkana, Ark.—Bids opened March 20, to improve following streets: resurface with gravel, Dudley Ave., from Ferguson to Jackson, County Ave., from 9th to 24th, and Harrison from Iron Mountain Ry. crossing

to Dudley Ave.; grade and gravel Pecan from 16th to 24th, 18th and 19th Sts., from Hickory to County Ave.

Paving.—City, Board of Public Service, St. Louis, Mo.—Bids until March 27 to reconstruct Page Blvd., from King's Highway Blvd. to Union Blvd.; plans, etc., on file.

Paving.—City, Ernest Smith, Engr., Gadsden, Ala.—Bids until Apr. 2 for 6900 lin. ft. 6x30-in. curb and gutter, 2345 sq. yds. sidewalks, etc., plans from City Engr.

Paving.—City of Fort Mill, S. C.—Bids until March 22 to place 6300 sq. yds. asphaltic concrete surfacing on 4-in. cement base; plans, etc. from Jaudon Engineering Co., Engrs., Elberton, Ga.

Paving.—J. N. Landers, Pur. Agt., Atlanta, Ga.—Bids until March 19 to pave Home, Rankin, 8th, Altoona Place, Barksdale, Iverson, Copenhill, Highland, Hardee; all concrete; Magnolia, Marietta, Peachtree, all granite blocks; Dalmar, White, Druid Circle, all Willite; plans, etc., on file.

Paving.—A. J. Johnson, City Clk., Jackson, Miss.—Bids opened March 20 to lay first-class pavements on Rose St. from Capitol to Lynch, and on S. Congress from Pearl to Court Sts.; plans, etc., on file and from M. L. Culley, City Engr.

Paving.—J. A. Carr, City Mgr., Anson, Tex.—Bids until March 22 to improve Public Square and 2 blocks on Commercial Ave.; Sec. 1, 15,600 sq. yds. pavement; 1300 lin. ft. combined curb and 30-in. gutter; 1000 lin. ft. separate gutter, etc.; alternate bids on vertical fibre brick on rolled gravel base, or concrete base; Sec. 2, 20,000 sq. yds. pavement; 6000 lin. ft. combined curb and 30-in. gutter; alternate bids on gravel surfacing, vertical fibre brick on gravel base, or cold rolled rock asphalt on gravel base; plans, etc. on file, and from Elrod Engineering Co., Const. Engr., Dallas, Tex.

Paving Equipment.—J. L. Morgan, Mayor, Pikeville, Ky.—Wagon loaders, steam shovels, for street and alley paving.

Paving Materials.—J. L. Morgan, Mayor, Pikeville, Ky.—Asphalt, wood block for street and alley paving.

Pipe.—F. T. Agricola, Gadsden, Ala.—Prices on 1½-in. pipe for water line.

Pins and Rollers.—Youngsville Sugar Co., Inc., Dr. R. O. Young, Gen. Mgr., Youngsville, La.—600 pins and rollers for Mallon chain.

Pipe (Sewer).—C. Perry Snell, St. Petersburg, Fla.—In market for sewer pipe for subdivision of 300 lots.

Pipe (Wood Stave).—Town of Spruce Pine, N. C.—Prices f. o. b. Spruce Pine, on 4 mi. of 10 and 12-in. wood stave pipe for water works, to stand following pressure; 1 mi. 43 lbs., 2 mi. 86 lbs., ½ mi. 100 lbs. and ½ mi. 130 lbs.; also prices on cast iron and other distribution system; D. W. Adams, Chief Engr., Old Fort, N. C.

Planing Mill Equipment.—H. W. Dexter (Mchy. Dealers) Box 665, Jacksonville, Fla.—30-in. knife grinder, also resaw for planing mill, American 111 preferred; used equipment.

Plumbing Material.—A. L. Barbour, Spartan, N. C.—Plumbing material for 8-room school.

Printers Blankets, etc.—J. I. Morris (Mfrs. Agents) Southbridge, Mass.—Printers blankets, woven felts and paper mill jacketing.

Pump (Dredging).—U. S. Engineer Office, Jacksonville, Fla.—Bids until April 20 to furnish and deliver dredging pump for U. S. Dredge Barnard.

Pump (Steam Boiler Feed).—Fred C. Dreyer, Mfrs. Agent, Box 200, Cumberland, Md.

—Second-hand guaranteed duplex steam boiler feed pump, brass fitted, state prices on 150 and 250 lbs. working pressure, capacity 12,000 to 15,000 gal. per hr.

Pump (Water).—F. T. Agricola, Gadsden, Ala.—Prices on water pump.

Pumps.—See Water Supply Equipment.

Pumps.—Youngsville Sugar Co., Inc., Dr. R. O. Young, Gen. Mgr. Youngsville, La.—One syrup pump for 1000 ton capacity and one filter press pump and motor, 1000 ton capacity.

Radio Parts, etc.—Mississippi Valley Radio Co., 203 Pine St., St. Louis, Mo.—Radio parts of all kinds, in large quantities, including wire, cabinets, switch levers, contact points, binding post, disc, etc.

Railroad Materials.—City of Tampa, Fla.—D. A. Redding, Purchasing Agt.—Bids until Mch. 20 to furnish following: Approx. 7 or 8½ tons of 70 to 85 lbs. steel rails with 30 prs. angle plates and bolts to fit rails furnished; delivery f.o.b. cars Tampa.

Reed.—H. S. Kleinatland, 1705 Walnut St., Chicago, Ill.—Reed in original lengths or cut into balloon sticks measuring 22-in. long.

Refrigerating Plant, etc.—Treasury Dept., Supvg., Archt.'s Office, Washington, D. C.—Bids until April 16 for ice making and refrigerating plant at U. S. V. Hospital, Chelsea, N. Y.

Rails (Relay).—Iddens Machinery Co., Box 1044, Knoxville, Tenn.—20-25 lbs. of 50 ton relay rails for Kentucky delivery.

Road and Bridge Construction.—State Highway Comsn., H. G. Shirley, Chmn., Richmond, Va.—Bids until Apr. 5 for 2 road projects as follows: F. 246-Route 12Y, Nansemond County, 7.26 mi. from Franklin to North Carolina line, one course concrete base, or concrete base and asphalt top; F 178, Route 1, Mecklenburg County, 6.13 mi. road from Clarksville to North Carolina line, one course concrete, bituminous macadam, or concrete base and asphalt top; also S208, Route 11, 178 ft. bridge over Clinch River, and 38-ft. bridge over Pounding Mill Branch; plans, etc. on file and from Dist. Engrs., as follows: Proj. 178, Richmond; F246, Suffolk; S208, Bristol.

Road Construction.—State Highway Dept., Jackson, Miss.—Bids until April 3 for 1.8 mi. road between Biloxi and Bay St. Louis, concrete or equivalent; Harrison County, Proj. Nos. 142 and 145; H. C. Dietzer, State Highway Engr. (Lately noted.)

Road Construction.—State Highway Dept., Jackson, Miss.—Bids until April 4 for 7.7 mi. gravel surfaced road in Pearl River County, Proj. No. 132; H. C. Dietzler, State Highway Engr.

Road Construction.—State Highway Dept., Jackson, Miss.—Bids until April 10 for 5.8 12.1 mi. road between Carthage and Philadelphia, Leake County, Proj. 104; H. C. Dietzler, State Highway Engr. (Lately noted.)

Road Construction.—State Highway Dept., Jackson, Miss.—Bids until April 6 for mi. gravel surfaced road between Lexington and Durant, Holmes County, Proj. 137; H. C. Dietzler, State Highway Engr. (Lately noted.)

Road Construction.—Sumter County Permanent Road Comsn., Sumter, S. C.—Bids until April 5 to grade, construct drainage structures and lay hard surface pavement on 3 following roads: 7.89 mi. Oswego; 9.74 mi. Wedgefield; 4.13 mi. Pocallo; plans, etc., from Lee, Pennell & Murray, Engrs., Sumter.

Road Construction.—Louisiana Highway Comsn., Reymond Bldg., Baton Rouge, La.

—Bids until Apr. 10 to build 2 sections of road as follows: 12.5 mi. gravel road on Ruston Monroe Highway, Lincoln Parish F. A. Proj. 110, Sec. B; 8.63 mi. gravel road on Tallulah-St. Joseph Highway, Madison Parish, F. A. Proj. 91, Sec. B; plans, etc., on file; J. M. Fourmy, State Highway Engr.

Road Construction.—Anne Arundel County Commrs., Annapolis, Md.—Bids until Apr. 3 for 4285 ft. concrete road from Iglehart Station, to entrance to Sherwood Forest, in 2nd Election Dist.; alternate proposals on macadam; plans, etc., on file, after March 26.

Road Construction.—McDowell County Court, Welch, W. Va.—Bids until Apr. 12 to grade and drain 7.4 mi. 16-ft. roadway of Bradshaw-Grundy road in Sandy River Dist.; plans, etc. from W. J. McClaren, Road Engr., and I. E. Basham, Asst. Engr.

Road Construction.—Muskogee County, Commrs., Lewis F. Kipp, Clk., Muskogee, Okla.—Bids opened March 19 to improve gravel road, designated as Mile 4, Sec. F-F, State Road System; plans, etc., on file and from County Engr.

Road Construction.—State Highway Dept., Montgomery, Ala.—Bids opened March 20 to grade, drain and gravel surface 23.6 mi. road from Tuscaloosa County line to Carrollton, Pickens County, F. A. Proj., 127; \$420,000; W. S. Keller, State Highway Engr.; J. H. Mayer, Div. Engr., Birmingham. (Lately noted.)

Road Construction.—State Roads Comsn., 601 Garrett Bldg., Baltimore, Md.—Bids until Apr. 3 to build 6 sections of roads as follows: Garrett County, 4.96 mi. concrete road along Bear Creek, between Friendsville and Kaese's Mill, Cont. G-20-A; Frederick County, 2 mi. concrete road on Urbana Pike, between Urbana and Montgomery County line, Cont. F-53; Baltimore County, .78 mi. asphalt, on Mount St. between Harlem and Riggs Aves., and between Laurens St. and North Ave.; Cont. BC-25-A; Baltimore County, 4.5 mi. on Philadelphia road between Whitmarsh and Harford County line, Cont. B-53; Caroline County, 4.5 concrete road between Goldsboro and Maryland, Cont. Co-33; Wicomico County, 2.8 mi. concrete road between Salisbury and Delmar, Cont. WI-22.

Road Construction.—State Road Dept., Tallahassee, Fla.—Bids until Apr. 4 to construct drainage structures and lay rock base on 3 road projects as follows: 546, Brevard County, 5 mi. Road No. 4, from Sharpes toward Titusville; 554 Brevard County, Road No. 4, from Bonaventure toward Eau Gallie; 507, Flagler County; 10 mi. Road No. 4, from Bunnell to asphalt road in Volusia County; plans, etc. on file and from Div. Engr., Fort Pierce for Proj. Nos. 546 and 554, and from Div. Engr., Ocala, Fla., for Proj. 507; W. F. Cocke, State Highway Engr.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until March 24 to grade, construct drainage structures, etc. on 57 road projects as follows: Andrew County, 2.55 mi. from Savannah, west, State Proj., Route 1, Sec. 22; Andrew County, 4.982 mi. from Savannah, west, State Proj., Route 1, Sec. 23, N. R. Sack, Div. Engr., Ballinger Bldg., St. Joseph, Mo.; Barton County, 360 mi. west of Lamar, State Proj., Route 36, Sec. 6, Ray Dunlap, Div. Engr., Joplin, Mo.; Bollinger County, 4 sections, totaling 18.059 mi. from Fredericktown to Jackson, State Proj., Route 9, Secs. 100, 101, 102, 103; Frank B. Newton, Div. Engr., Sikeston, Mo.; Callaway County, 3 sections, 1.827 mi. from Jefferson City to Columbia, State Proj., Route 7, Sec. 43, 5 mi. from

Jefferson City to Fulton, State Proj., Route 15, Sec. 48, and 5 mi. south of Bloomfield, State Proj., Route 15, Sec. 49; R. W. Hodson, Div. Engr., Jefferson City.

Cape Girardeau County, 2 sections, 10 mi. west of Jackson, State Proj., Route 9, Secs. 111 and 112; Frank B. Newton, Div. Engr.; Carroll County, 4.561 mi. south of Carrollton, State Proj., Route 3, Sec. 35; A. C. Lingley, Div. Engr., Reliance Bldg., Kansas City, Mo.; Clay County, 3.159 mi. from North Kansas City to Liberty, State Proj., Route 10, Sec. 1; A. C. Lingley, Div. Engr.; Dent County, 2 sections, 4.261 mi. from Houston to Salem, State Proj., Route 32, Sec. 5, and 4.856 mi. west of Salem, State Proj., Route 32, Sec. 6; J. H. Long, Div. Engr., Willow Springs, Mo.

Franklin County, 4.820 mi. west of Union, State Proj., Route 12, Sec. 52; S. W. Rudder, Div. Engr., Bristol Bldg., Webster Groves, Mo.; Gentry County, 2 sections, 1.337 mi. from Albany to Stanberry, State Proj., Routes 4 and 4A, Secs. 2 and 18A; N. R. Sack, Div. Engr., Ballinger Bldg.; Jefferson County, 3 sections, 12.4 mi. road from Festus north, State Proj., Route 9, Secs. 71, 72 and 73; S. M. Rudder, Div. Engr.; Holt County, 3.830 mi. from Oregon to Savannah, State Proj., Route 1, Sec. 20; N. R. Sack, Div. Engr.; Laclede County, 2 sections, 7.099 mi. from Lebanon, northeast, State Proj., Route 14, Secs. 37 and 38A; H. P. Mobberly, Div. Engr.

Lawrence County, 2 sections, 5.20 mi. from Springfield west, State Proj., Route 14, Secs. 9 and 10; Ray Dunlap, Div. Engr.; McDonald County, 3.158 mi. from Newton County line south, State Proj., Route 1, Sec. 108; Ray Dunlap, Div. Engr.; Madison County, 2 sections, 9.946 mi. from Fredericktown, east, State Proj., Route 9, Secs. 97 and 99; Frank B. Newton, Div. Engr.; Mercer County, 3 sections, 2.476 mi. north and south of Princeton, State Proj., Route 3, Sec. 1, 2.695 mi. from Lineville to Mercer, State Proj., Route 3, Sec. 2, 4.88 mi. north and south of Princeton, State Proj., Route 3, Sec. 5; A. R. Towse, Div. Engr., Howe Bldg., Macon, Mo.; Nodaway County, 2 sections, 4.904 mi. from Maryville, west, State Proj., Route 18, Secs. 6 and 11, N. R. Sack, Div. Engr.

Oregon County, 1.638 mi. from West Plains to Thayer, State Proj., Route 7, Sec. 102, J. H. Long, Div. Engr.; Pemiscot County, 2 sections, 8.22 mi. from Portageville south, State Proj., Route 9, Secs. 141 and 142; Frank B. Newton, Div. Engr.; Phelps County, 3 sections, 11.422 mi. from Rolla, west, State Proj., Route 14, Secs. 47, 48A and 49; H. P. Mobberly, Div. Engr.; Pulaski County, 3 sections, 6.065 mi. from Waynesville, northwest, and 4.942 mi. from Waynesville, southwest, State Proj., Route 14, Secs. 46, 44 and 41; H. P. Mobberly, Div. Engr.; Randolph County, 1.155 mi. from Moberly, west, State Proj., Route 10, Sec. 36; A. R. Towse, Div. Engr.; St. Clair County, 1.526 mi. from Appleton City, west, State Proj., Route 24, Sec. 13; Ray Dunlap, Div. Engr.

Saline County, 5 sections, 24.4 mi. from Lafayette County line east, State Proj., Route 2, Secs. 18, 19, 20, 21 and 22; A. C. Lingley, Div. Engr.; Schuyler County, 4.115 mi. from Lancaster south, State Proj., Route 7, Sec. 6, A. R. Towse, Div. Engr.; Stoddard County, 2 sections, 2.5 mi. from Dexter, south, State Proj., Route 25, Sec. 50, 2.923 mi. from Dexter west, State Proj., Route 16, Sec. 83; Frank B. Newton, Div. Engr.; Texas County, 2 sections, 5 mi. north of Cabool, State Proj., Route 7, Sec. 86, 5 mi. from Houston to Cabool, State Proj., Route 7, Sec. 85, J. H. Long, Div.

Engr.; Washington County, 3.846 mi. north of Potosi, State Proj. Route 21, Sec. 4; S. M. Rudder, Div. Engr.

Road Construction.—York County, T. B. Spratt, First Trust Co., Fort Mill, S. C.—Bids until March 22 for 2.823 mi. State Route from Catawba River to city limits of Fort Mill; 30,486 sq. yds. sheet asphalt or asphaltic concrete surfacing; 18,596 sq. yds. combination concrete header curbing and base course, 11,420 lin. ft. combination concrete curb and gutter; F. A. Proj. No. 54; plans, etc., from State Highway Engr.

Roller (Steam).—D. C. Elphinstone (Mchy. Dealers) 408 Continental Bldg., Baltimore, Md.—10 ton, 3 wheel steam roller.

Roller Chains, etc.—Youngsville Sugar Co., Inc., Dr. R. O. Young, Mgr., Youngsville, La.—752 ft. roller chains and attachments.

Rubber Plant Equipment.—E. B. Petty, Roanoke Tire & Rubber Co., Inc., Roanoke, Va.—Bids opened May 1 for general equipment for rubber mfg. plant.

Saw Gumming Machine.—B. P. Shelor, Floyd, Va.—To purchase saw gumming machine.

Search Light.—O. H. Atkinson, 806 Taylor St., Fort Worth, Tex.—Bids on searchlight with 30-mile ray.

Sewer Construction.—City of Augusta, Ga. W. H. Wise, City Engr. and Commr. of Public Works—Bids until March 24 for constructing terra cotta pipe sewers, including manholes, lampholes, Y-branches, etc. on portions of Mauge, Holley, Murray Lane, McAnally, Emmett, Katherine Sts.; address bids to J. W. Westmoreland, Clk. of Council.

Sewer Construction.—District Commrs., Room 500 District Bldg., Washington, D. C.—Bids until March 30 to construct approx. 480 ft. of sewer.

Sewer Construction.—City of Atlanta, Ga.—J. L. Landers, Purchasing Agt.—Bids opened March 19 to furnish labor and material to construct the Greensferry Ave. trunk sewer from present and near Parson St. to 400 ft. north of Hunter St.

Sewer Construction.—City of Nocona, Tex.—Bids until March 20 to construct complete sewer system including 27,100 ft. of 6-in. and 17,860 ft. of 8-in., and 2000 ft. of 10-in. sewer pipe, 58 manholes, 24 lampholes, 3 disposal plants. Elrod Engineering Co., Consult. Engr., Dallas, Texas.

Shovel.—H. W. Dexter (Mchy. Dealers) Box 665, Jacksonville, Fla.—¾ yd. caterpillar shovel, gas or steam; Marion 21 preferred.

Shovel.—D. C. Elphinstone (Mchy. Dealers) 408 Continental Bldg., Baltimore, Md.—Erie B caterpillar shovel, A. S. M. E.

Shovel (Steam).—Uvalde Co., Box 902, San Antonio, Tex.—Second-hand steam shovel, 5/8 to 1½ yd. dipper, prefer caterpillar tractor.

Sidewalk Construction.—City Comsn., E. P. Owen, Jr., Secy., Jacksonville, Fla.—Bids until April 12 to lay 2150.6 sq. yds. concrete sidewalks, and 20,763.5 sq. yds. tile sidewalks on 39 streets; plans, etc.

Slashing Machinery.—See Textile Machinery.

Smoke Stack.—James B. Porter, Norfolk, Va.—12 ft. of 2½ ft. of smoke stack without bands or guy wire.

Sprinkler System.—Dalton McBee, Secy., Greenwood Compress & Storage Co., Greenwood, Miss.—Sprinkler system for 450,000 sq. ft. floor space.

Steel.—See Building Materials.

Stonework, Etc.—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until Mch. 30 for construction of stonework, new roof, gutters and downspouts, waterproofing, etc. for U. S. post office and Custom House at Oswego, N. Y.

Street Improvements.—W. P. Parsons, Mayor, Wadesboro, N. C.—Bids until March 29 to pave 60,000 sq. yds. streets; sheet asphalt, Warrenite-Bitulithic, bituminous concrete, etc.; also to lay 15,000 sq. yds. sidewalks plans, etc., from A. E. Taplin, Consult. Engr., High Point, N. C.

Switchboard, etc.—Youngsville Sugar Co., Inc., Dr. R. O. Young, Gen. Mgr., Youngsville, La.—One switchboard and power panels; one transformer.

Tank.—See Water Supply Equipment.

Tank (Cypress).—F. T. Agricola, Gadsden, Ala.—Prices on cypress tank.

Textile Machinery.—Hobart Mfg. Co., E. C. Barnhardt, Concord, N. C.—Dyeing, slashing and winding machinery.

Tractors.—D. C. Elphinstone (Mchy. Dealer) 408 Continental Bldg., Baltimore, Md.—Nine 10-ton tractors.

Valves (Blow Off).—Youngsville Sugar Co., Inc., Dr. R. O. Young, Gen. Mgr., Youngsville, La.—Thirteen 2½ in. blow off valves.

Valves (Cylinder).—U. S. Engineer Office, Florence, Ala.—Bids until April 20 to furnish and deliver six sets of cylinder valves, operating mechanism for the same, etc., for navigation lock of Wilson Dam.

Varnish, etc.—Mississippi Valley Radio Co., 203 Pine St., St. Louis, Mo.—Soldier, stain, shellac, varnish, etc.

Veneer Mill Equipment.—Samuel B. Coffin, High Point, N. C.—76 or 88-in. rotary veneer lathe, clipper and grinder; also 35 to 40 H. P. engine and 50 to 60 H. P. boiler; rebuilt or second-hand outfit.

Veneers.—J. V. Fleming, Mgr., Veneered Door Products Corp., 4229 Duncan Ave., St. Louis, Mo.—Prices on veneers.

Wagon Loaders.—See Paving Equipment.

Water Supply Equipment.—Norton, Bird and Whitman, Engrs., 615 Munsey Bldg., Baltimore, Md.—Prices on water distribution pipe, pumps and tank.

Water Tank and Tower.—Dalton McBee, Secy., Greenwood Compress & Storage Co., Greenwood, Miss.—100,000 gal. capacity water tank and tower complete.

Wharf, etc.—Port Commrs., J. H. Walsh, Gen. Mgr., Suite 200 New Court Bldg., New Orleans, La.—Bids until April 5 for concrete wharf, chain walls and column footings for shed at Clairborne Ave. landing; plans at office of Supvrs. of Purchases, 1 Canal St.

Whistles (Small).—Eraso Mfg. Co., Box 370, Montgomery, Ala.—Small whistles in quantities.

Winding Machinery.—See Textile Machinery.

Woodworking Machine.—B. P. Shelor, Floyd, Va.—To correspond with mfrs. of or dealers in machine for making locust pins for telephone or telegraph construction; either new or second-hand.

Woodworking Machinery.—R. P. Johnson (Mchy. Dealers) Wytheville, Va.—Dealers prices on 12-in. hand jointer with countershaft; 7 or 8 in. outside moulder with countershaft; automatic knife grinder; hollow shisel mortiser; light self feed rip saw machine; second-hand.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Financial News

New Financial Corporations.

Ala., Enterprise—The First National Bank of New Brockton, merged with the Farmers and Merchants National Bank of Enterprise.

Ala., Mobile—Farmers and Loan Assn., capital \$50,000, inceptd. by William C. Strong, William L. Caffey and John Stelk.

D. C., Washington—Lincoln Mortgage and Investment Co., capital \$100,000 inceptd. with John W. Lewis, Jesse H. Foster, J. M. Barnes, all of Washington.

D. C., Washington—Potomac Finance Corp., capital \$500,000, inceptd. by William J. Kidd, John V. Morris, Walter A. Johnston all of Washington, D. C.

Ga., Atlanta—City Real Estate & Trust Co. capital \$50,000, inceptd. by R. F. Bowler, R. A. Thompson and L. H. Adams.

Ky., Livermore—Livermore Savings and Building Assn., capital \$100,000, inceptd. by K. J. Meyer, W. D. Atherton and E. G. Lindemann.

Ky., Louisville—Home Credit Co., capital \$60,000 inceptd. by J. A. Dugan, G. S. Hanes and A. M. Rowlett.

Ky., Louisville—Portland Bank capital \$100,000, inceptd. by E. M. Swain, F. L. Klingman and Fred Locker.

Md., Baltimore—Security Finance Co., 419 St. Paul Place, capital \$10,000, inceptd. by Charles Hayden, Jos. C. Glos and R. Bennett Darnall.

Mo., Independence—Metropolitan Underwriters, Inc., capital \$25,000, inceptd. by M. H. Siegfried, M. T. Jamison, J. F. Keir and others.

Mo., Joplin—Osborne-Pearson-McGuire Co., capital \$20,000, inceptd. by J. F. Osborne, R. A. Pearson, D. B. McGuire.

Mo., Kansas City—Deady Investment Co., inceptd. by F. J. Deady, R. S. Brennan, M. H. Hegarty.

Mo., Kansas City—McGee Investment Co., capital \$50,000, inceptd. by W. W. Whyte, E. Whyte, F. D. Whyte, G. P. Whyte.

Mo., Kansas City—San Jose Investment Co., capital \$60,000, inceptd. by James Halpin, Edw. Corrigan, R. J. Ingraham and others.

Mo., St. Louis—Interstate Finance Co., capital \$50,000, inceptd. by G. W. McVicker, W. F. Cox and others.

Mo., St. Louis—Junior Loan Co., capital \$15,000, inceptd. by M. Blumberg, M. Palans, C. Kaufman and others.

N. C., Durham—The North Carolina Mutual Life Insurance Co., purchased the Afro-American Life Insurance Co., of Charlotte.

Okla., Tulsa—Franklin Securities Co., capital \$50,000, inceptd. by E. J. Franklin, M. E. Franklin and P. B. Franklin.

S. C., Columbia—The Cotton State Mutual Insurance Co., inceptd. with Joseph Norwood, Prest.; Malcom J. Miller, Vice-Prest.

Tenn., Memphis—Cosmopolitan Life Insurance Co., capital \$250,000, inceptd. by Raymond E. Canogue, H. W. Durham, T. K. Riddick and others.

Tex., Houston—Early-Foster Brokerage Co., inceptd. by W. M. Foster, D. Armstein, L. Armstein.

Va., Norfolk—Cornland Finance Corp., capital \$50,000, inceptd. with H. W. West, Prest., Hickory, Va., Reginald Page, Secy., Norfolk.

W. Va., Huntington—Continental Finance Co., capital \$50,000, inceptd. by E. I. Hogsett, H. K. Pancake and others.

W. Va., Huntington—Security Exchange Corp., capital \$500,000, inceptd. by S. A. Bowman, W. L. Branch, H. C. Taylor, C. L. Wright, H. C. Warth, all of Huntington.

New Securities.

Ala., Albany—Street—City, W. A. Virtain, Mayor, will receive bids until March 23 for \$125,000, 6% bonds. (Lately noted.)

Ala., Decatur—School—City will receive bids until March 23 for \$35,000 bonds. Address The Mayor.

Ala., Talladega—Water—City sold \$239,000, 5% bonds to Caldwell & Co., Nashville, Tenn.; Sterner Bros. and Ward, Sterne & Co., both of Birmingham. Address The Mayor. (Lately noted.)

Ark., Clarksville—Refunding—Johnson County sold \$68,000, \$1000 denom. bonds to J. L. Arlitt, Austin, Tex. Address County Commrs.

Ark., Eudora—Drainage—Eudora Western Drainage Dist. sold \$400,000 bonds at par. Address Dist. Commrs.

Ark., Harrisburg—Refunding—Poinsett County sold \$104,000, 6%, \$1000 denom. bonds to J. L. Arlitt, Austin, Tex. Address County Commrs.

Ark., Wilmot—School—Wilmot Special School Dist. sold \$40,000, 6%, bonds to M. W. Elkins & Co., of Little Rock. Address Dist. Trustees.

Fla., Bradentown—Road—Manatee County, Terra Ceia Special Road & Bridge Dist., voted \$55,000 bonds. (Lately noted.)

Fla., Greenville—Water and Light—Town will vote on \$30,000 bonds. Address The Mayor.

Fla., Jacksonville—Road, Bridge—Duval County Commrs. will vote May 15 on \$3,000,000 bonds, including \$2,550,000 for roads, and \$450,000 for bridges.

Fla., Lakeland—Drainage—Lake Parker Drainage Dist. sold \$25,000 bonds to Slayton and Co., Toledo, Ohio. Address Dist. Commrs.

Fla., Pensacola—Indebtedness—City sold \$50,000 bonds to the American National Bank of Pensacola at par. Address The Mayor. (Lately noted.)

Fla., St. Petersburg—School—City, R. S. Blanton, Secy., will receive bids until Apr. 10 for \$180,000, 5½%, \$1000 denom. bonds. (Lately noted.)

Fla., Sebring—Highland County, William King, Chrmn., will open bids March 27 for \$525,000, 6% bonds.

Fla., St. Petersburg—School—City voted \$180,000 bonds. Address The Mayor.

Ga., Blackshear—Road and Revenue—Pierce County, O. R. Youmans, Commr., will receive bids until March 26 for \$30,000, 6%, \$1000 denom. bonds.

Ga., Donaldsonville—Sewer, Water, Light School—City, T. E. Roberts, Mayor, will receive bids until April 17 for \$75,000, 6% bonds.

Ky., Ashland—Paving—City, H. L. Carroll, City Clk., opens bids March 19 for \$27,000 bonds.

Ky., Ashland—Sewer—City, H. L. Carroll, City Clk., opened bids March 10 for \$200,000 5% \$500 denom. bonds.

La., Basile—Improvement—City, L. F. Schamber, Mayor, will receive bids until April 3 for \$10,000, 6% bonds.

La., Delhi—Sewer—City, F. G. Hulse, Mayor, will receive bids until Mar. 27 for \$40,000 bonds for Sewer Dist. No. 1. (Lately noted.)

La., Houma—City, H. M. Bourg, Mayor, will receive bids until April 3 for \$60,000, 5% bonds.

La., Jena—School—La Salle Parish School Dist., S. Q. Chapman, Prest. School Bd., will receive bids until March 24 for \$40,000 bonds.

La., Madisonville—Public Improvement—Town, Octave J. Oulliber, Mayor, will receive bids until April 2 for \$25,000 bonds.

La., Ponchatoula—Waterworks—City, W. R. Haight, Mayor, will receive bids until April 3 for \$2000 bonds.

Miss., Aberdeen—School—City voted \$125,000 bonds. Address The Mayor.

Miss., Bay St. Louis—Roads and Bridge—Hancock County, A. A. Kergosien, Clk., sold \$400,000, 5% bonds to Sutherlin & Barry Co., New Orleans, La. (Lately noted.)

Miss., Belzoni—Road—Humphreys County, Four Mile Dist., contemplates voting March 30 on \$110,000 bonds. Address County Commrs.

Miss., Greenwood—Bridge—Leflore County, Board of Supvrs. will vote March 31 on \$75,000 bonds.

Miss., Money—School—Dist. will vote March 31 on \$27,500 bonds. Address Dist. Commrs.

Miss., Point Friars—Refunding—Coahoma County sold \$35,000 bonds to I. B. Tigrett & Co., of Jackson, Miss. (Lately noted.)

Mo., Joplin—School—City will vote April 3 on \$75,000 bonds. Address Bd. of Education.

Mo., Kansas City—City sold \$137,000, 5½% bonds. Address The Mayor.

Mo., Liberty—School—Liberty School Dist. sold \$100,000 bonds to bankers of Liberty. Address Dist. Trustees. (Lately noted.)

Mo., Monroe—School—City will vote Apr. 3 on \$75,000 bonds. Address The Mayor.

N. C., Faison—School—Faison sold \$50,000 bonds. Address The Mayor. (Lately noted.)

N. C., Fayetteville—Road and Bridge—Cumberland County, D. Gaster, Treas., will receive bids until April 12 for \$455,000, 5% bonds.

N. C., Lincolnton—Street—W. L. Slayton & Co., of Toledo, purchased \$160,000 bonds. Address The Mayor.

N. C., Maiden—Street—Town, S. M. Finger, Clk., will receive bids until March 22 for \$25,000, 6%, \$1000 denom. bonds.

N. C., Rutherfordton—Street, Sewer, School—Town contemplates issuing \$150,000 bonds, including \$25,000 for streets, \$75,000 for sewers, and \$50,000 for school. Address The Mayor.

N. C., Saluda—Paving—City will probably vote on \$65,000 bonds. Address P. H. Bailey, Mayor.

N. C., Saluda—Water—City Council voted \$25,000 bonds. Address P. H. Bailey, Mayor.

N. C., Walnut Cove—School—Walnut Cove Special School tax Dist. will vote April 16 on \$15,000 bonds. Address Bd. of Education.

N. C., Waltonburg—Light—City sold \$10,000, 6% bonds to Bruce Craven, of Trinity, at par and accrued interest. Address The Mayor. (Lately noted.)

N. C., West Hickory—Water—City P. O. Moore, Clk. will receive bids until April 2 for \$40,000, 5½% bonds.

Okla., Broken Arrow—City Hall—City will

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vote in April on \$50,000 bonds. Address The Mayor.

Okla., Cushing—School—City will vote on \$95,000 bonds. Address Bd. of Education.

Okla., Kansas—School—Kansas School votes Mar. 17 on \$3700 bonds. Address School Board.

Okla., Sapula—Road—Creek County, Tiger Township, voted \$300,000 bonds. Address County Commrs. (Lately noted.)

S. C., Aiken—Road—Aiken County Commrs., Chas. J. Hill, Chmn., will vote July 10 on \$400,000 bonds for toll road or \$300,000 bonds for free road. (Lately noted.)

S. C., Gaffney—School—Gaffney School Dist. No. 10 will vote on \$300,000 bonds. Address N. H. Littlejohn, Chmn. Bd. of Trustees.

S. C., Georgetown—Georgetown County, M. S. Bellune, County Supvr., will receive bids until March 31 for \$50,000 bonds.

S. C., Greenville—School—Fork Shoals School Dist. voted \$12,000 bonds. Address M. C. Barton, Supt. (Lately noted.)

S. C., Greer—Bank of Greer and the Farmers Bank & Trust Co., plan consolidating with combined capital \$100,000.

Tenn., Athens—School—McMinn County will vote on \$235,000 bonds. Address E. R. Lingerfelt, County Supt.

Tenn., Chattanooga—Sidewalk—City sold about \$32,000, 6% bonds to the Hamilton National Bank. Address A. W. Chambliss, Mayor.

Tex., Brady—Street—City, E. L. Jones, Mayor, contemplates voting on \$75,000 bonds.

Tex., Clarksville—Street—City, Prentice Wilson, Mayor, will receive bids until March 26 for \$21,000 bonds.

Tex., Columbia—Funding—Colorado County sold \$100,000 bonds to H. C. Burt & Co., of Houston, and \$100,000 to the County at par. Address County Commrs.

Tex., Corsicana—Street, Sewer, Water—City Comsn., will vote April 3 on \$100,000 bonds, including \$75,000 for streets, \$10,000 for sewers, and \$15,000 for water works.

Tex., Dallas—School—City will vote April 3 on \$1,000,000 bonds. Address R. Aldredge, Mayor.

Tex., Ennis—Paving—City, E. M. Thomas, Mayor, will vote April 3 on \$60,000 bonds.

Tex., Galveston—School—City sold \$520,000 bonds. Address The Mayor.

Tex., Galveston—Road—Galveston County Commrs., plan election April 14 on \$1,000,000 bonds. (Lately noted.)

Tex., Houston—Drainage—Harris County, Chester H. Bryan County Judge, will receive bids until March 19 for \$75,000 bonds of Drainage Dist. No. 1.

Tex., Howe—Water—City will vote March 20 on \$35,000, 6% bonds. Address The Mayor. (Supersedes previous item.)

Tex., Laredo—Warrants—Webb County sold \$50,000, 6%, \$1000 denom. bonds to J. L. Arlitt, of Austin. Address County Commrs. (Lately noted.)

Tex., Nederland—School—Nederland Independent School Dist. voted \$100,000 bonds. Address Dist. Trustees.

Tex., Nocona—Sewer—City sold \$50,000 bonds to Hall & Hall, of Temple at premium. Address The Mayor. (Lately noted.)

Tex., Palestine—Road—Anderson County contemplates issuing \$1,500,000 bonds. Address E. W. Davis, County Engr.

Tex., Rule—Water—City sold \$53,000 bonds. Address G. W. Sollvek, Mayor. (Lately noted.)

Tex., Wills Point—Street, Light Plant—City will vote Apr. 3 on \$35,000 bonds, including \$10,000 for streets and \$25,000 for light plant. Address The Mayor.

Va., Charlottesville—School—City will vote April 10 on \$200,000 bonds. Address The Mayor.

Va., Norfolk—Refund—City will issue \$3,029,000 bonds. Address The Mayor.

W. Va., Logan—Municipal—City voted \$20,000 bonds. Address The Mayor.

W. Va., Pineville—Road—Wyoming County, Huff Dist., voted \$50,000 bonds. Address County Commrs. (Lately noted.)

Financial Notes.

Bank of Parrish, Montgomery, Ala., increased capital from \$15,000 to \$30,000.

Beaver Dam Bank, Beaver Dam, Va., will increase capital from \$10,000 to \$20,000.

Citizens Bank of Albany, Albany, Ky., will increase capital from \$15,000 to \$25,000.

Davenport Brokerage Co., Sabin, Tex., increased capital from \$3500 to \$7000.

First National Bank, East Radford, Va., increased capital from \$50,000 to \$100,000.

Greater Louisville Saving and Building Assn., Louisville, Ky., increased capital from \$4,000,000 to \$4,500,000.

Guaranty Securities Corp., Jacksonville, Fla., will increase capital from \$500,000 to \$1,000,000.

Nashville Savings & Loan Corp., Nashville, Tenn., will increase capital from \$100,000 to \$200,000.

Progressive Loan and Building Assn., Newport, Ky., will increase capital from \$500,000 to \$750,000.

Volunteer State Life Insurance Co., Chattanooga, Tenn., will increase capital to \$600,000.

Trade Literature.

Combustion Systems for Economy.

McClave shaking and cut-off grates, Type 2-A, are comprehensively and instructively described and illustrated in a new bulletin issued by the McClave-Brooks Company, Scranton, Pa., manufacturers of "combustion systems for greater economy," in the production of which they have an unusually large and up to date plant of fifteen or more buildings that occupy an extensive area. These grates are noted as recognized standard for all grades of either bituminous and semi-bituminous fuel, besides all grades of lignite and bagasse, many of them being used in the South where these latter fuels are often employed. The line of this organization includes dumping grates and round grates as well as shaking and cut-off grates, also mechanical stokers, hopper-feed hand stokers and hand-fired stokers, boiler fronts and Argand blowers. The grates are made to fit all sizes of boilers and with their grate bars in as many rows as may be desired and in almost any length. The bars are made so that should any section be broken it can be removed and a new section put in instead of having to take out and replace the whole bar. The company has twenty branch offices throughout the country including eight in the South. It also has branches in a number of foreign countries.

Value of Flue Lining Set Forth.

"Dickey Clay" is a service bulletin issued by the W. S. Dickey Manufacturing Co., manufacturers of clay products, Kansas City Mo. This little house organ is printed and distributed every other month and its contents warrant the phrase: "Devoted to constructive cooperation in the field of clay products." The bulletin is attractively illustrated and the current number's leading article relates to the importance of flue lining in building construction.

A New Business Periodical.

"Howdy" is an attractive little monthly publication of the Morrison & Rismann Co., Incorporated, dealers in iron and steel scrap, Buffalo, New York. Besides an interesting description of the rise of this corporation from a capitalization of only \$800. in 1887 to a capital of \$500,000 now, the little paper contains many contributions of wit and wisdom.

Seamless Boiler Tubes.

National Bulletin No. 12 contains a special article concerning Shelby seamless, hot rolled boiler tubes manufactured by the National Tube Co., Pittsburgh. The properties, the use and the manufacture of these boiler tubes are attractively described and illustrated, the interesting and detailed information of the article being accompanied by tabular data of value to everyone interested.

Hydraulic Wheel Press Bulletin.

The Hydraulic Press Mfg. Co., Mount Gilead, Ohio, have issued a well illustrated descriptive bulletin of their H-P-M high pressure hydraulic wheel presses, the front page carrying a picture of a heavy duty driving wheel press, inclined type with base plate, this press being designed for large work. Wheel presses are used in railroad shops for forcing locomotive driving wheels or car wheels either on or off of their axles, as well as for other machine shop purposes. Open hearth steel castings and heat treated forgings are used in the construction of all of the major stressed parts of these presses. All standard sizes may be obtained in either upright or inclined types and equipped with accessories according to the wishes of purchasers.

Opportunities for Investment South.

"The New South: A Record of Achievement Addressed to Investors," is the title of a booklet issued by the Hibernia Securities Company, Inc., Hibernia Bank Building, New Orleans, La. This publication contains many charts and tables of statistics in addition to its reading matter, the figures being based upon reports of the MANUFACTURERS RECORD and also on reports from Government sources. The Securities Company was organized by the Hibernia Bank, which has been active in underwriting and distributing Southern securities for over 50 years. Attention is directed to the fact that "the South is a 'new' region in the sense that the opportunities for the profitable employment of capital exist in far greater measure than in the sections where capital has long been accumulating and where natural resources have been already pretty thoroughly exploited."

Household Refrigerating Plant.

"Refrigeration in the Home" is a pocket sized booklet issued by L. A. Roth, 15 East Fayette St., Baltimore, Md., dealing with the "Kelvinator," a household refrigerating machine, which, it is pointed out, is appropriately named because Lord Kelvin was probably the world's greatest authority on temperature; hence his name is preserved in this successful invention for refrigerating without ice. An installation of this sort includes a brine tank in the ice compartment of one's refrigerator, a compressor driven by an electric motor and an air-cooled condenser. These latter are placed in the cellar or other out of the way place, being connected with the brine tank by small copper tubing. Besides taking the place of ice in a refrigerator this installation also makes ice for use on the table. Slide trays which fit in the brine tank have moulds to be filled with pure water which is soon converted into small cubes of ice.

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INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Takes Over a Steel Plant.

The Youngstown Sheet & Tube Company, Youngstown, Ohio, have taken over the Brier Hill Steel Company of that city, and are now operating these plants, expecting to execute as soon as they can all contracts and specifications now on their books. Since March 1 all material from the Brier Hill plants has been shipped by the Youngstown Sheet & Tube Co. on its own account, and it will continue to thus handle the additional products from these plants, including blue annealed sheets, plates, etc. Matters relating to shipments will be attended to through any of the Youngstown organization's sales offices.

South's Opportunity for Paper Making.

"Profitable Paper-Making Possibilities South," is the striking caption on an advertisement of the Pusey & Jones Company, Wilmington, Delaware, in the MANUFACTURERS RECORD saying that many Southern localities have ample raw material, cheap power, good distributing facilities, advantageous freight rates, etc., and that they would be glad to suggest mill engineers and architects. This company are manufacturers of paper-making machinery in which line they have been engaged for half a century, but they also build centrifugal pumps, autoclaves and friction clutches, besides river steamers, tugboats and barges.

An Export Authority in a New Field.

B. Olney Hough, for many years editor of the American Exporter, has established himself as export counsellor, consultant and adviser to banks, exporters, and manufacturers, with offices under the style of B. Olney Hough, Inc., 17 Battery Place, New York. He will continue to act as export and technical adviser and writer for the American Exporter with the title of contributing editor. Mr. Hough has had a varied and comprehensive experience as salesman, manager and buyer of manufacturing plants; and as export and import-merchant for 25 years he travelled around the world, gaining a personal and intimate business acquaintance with the world's great markets, from the Orient to Europe, and from Stockholm to Melbourne.

Importance of Stopping Water Leakage.

A "Leak Indicating Pocket Piece" which gives ocular demonstration of the great amount of water that will pass through a small orifice has been received from the H. W. Clark Company, Mattoon, Illinois, engineers and manufacturers of waterworks equipment and municipal material and supplies. There are three small holes in the pocket piece, which is of metal. The smallest hole is only about as large as that which would be made by a stout pin, yet through such an opening 180 gallons of water under 40 pounds pressure would pass every twenty four hours. The next hole, of about twice the diameter of the first, shows 960 gallons lost in the same time, while the largest of the three holes yet not over an eighth of an inch in diameter shows 3600 gallons lost every full day. It is observed, that this data would be convincing to water users who receive large meter bills in consequence of leaks. One of these pieces will be sent on request to any engineer or official, by the Clark Company.

New Name Adopted.

Tips Engine Works is the new name adopted by the Tips Foundry & Machine Co., of Austin, Tex., whose business is now almost entirely confined to the manufacture of oil engines, foundry work being incidental. Hereafter it will be known altogether by its new title. The product of this plant includes vertical and horizontal crude oil and gas engines of the semi-Diesel type, which are fully presented in the company's bulletins.

Permanent Fastening for Shaft Hangers, Etc.

In another place in this issue appears an illustrated announcement of the Midwest box rails manufactured by the Midwest Steel & Supply Co., Inc., 28 West 44th St., New York. It is especially remarked that the use of these rails in reinforced concrete provides a permanent, flexible system for fastening shaft hangers, pipes, cables, etc., and that the rails, while higher in price than ordinary inserts, give dependable service and are permanent. The "Architects and Engineers Data Book," issued by this company gives full particulars with numerous pictures and diagrams, of overhead shafting layouts constructed with these rails. The publication also covers machinery monorails, car tracks and various other equipment.

Edward H. Dean.

Edward H. Dean, president of the Dean Bros. Co., pump manufacturers, Indianapolis, Ind., died March 11 at his home there at the ripe age of 80 years after a sudden and acute illness of a few hours. Mr. Dean was a native of Deansboro, N. Y., but was educated in Brooklyn whither his parents moved when he was a boy. He became a machinist and for three years during the civil war served as engineer in the navy. After the war he was engaged in the foundry and machine business at Rome, N. Y., and in 1870 this business was removed to Indianapolis where it has remained. He has been at the head of the organization for many years. He leaves a widow, three sons and three daughters, two of the sons being in the company, viz. Noble Dean and Edward P. Dean.

Several Changes of Agencies.

The McClave-Brooks Co., Scranton, Pa., manufacturers of McClave grates and stokers, have appointed the Briggs-Weaver Machinery Co., Dallas, Tex.—one of the largest supply houses in the Southwest—to be agents for all McClave products in the northern part of Texas and in Oklahoma. The Dallas office of the McClave-Brooks Co., under the direction of D. G. Counts, will cooperate with the Briggs-Weaver Co. in this territory. Mr. Counts will maintain his headquarters at Memphis, Tenn., and will have another branch office at Austin, Tex., R. R. Causey being his assistant. It is also announced that the Hauptman & Loeb Co., Ltd., 618-628 Magazine St., New Orleans, has been appointed agent for the McClave products in Louisiana. Furthermore, on March 1, A. P. McClintock became assistant manager of the New York office of the McClave-Brooks Co., and on March 10 Harry G. Murphy was appointed to represent this company in Scranton territory; he was formerly manager of the Scranton office of the Fairbanks Company. W. W. Boyd will represent the company in Cuba.

Change of Address.

Alfred Box & Co., Inc., Philadelphia, Pa., manufacturers of cranes and hoists, have recently moved into their new quarters at East Ontario St., and Trenton Ave. in that city to which address communications should now and hereafter be sent.

Will Purchase Municipal Issues.

The Jennings Realty & Investment Co., Inc., Jennings, La., has been incorporated there for the purpose of handling real estate and townside developments, drainage, bridges, etc., D. C. Ritchie being president. From time to time, it is stated, plans are made in that vicinity to negotiate improvements, such as gravel roads, sewer extensions, waterworks connections, etc., and the company was formed to purchase the bonds issued in connection therewith.

Florida Branch Opened.

The Truscon Steel Company of Youngstown, Ohio, have opened a branch office at 410-411 Professional Building, Jacksonville, Florida, to cover that state. F. S. Boggs is the district manager. This company manufactures permanent fireproof buildings to meet individual requirements and yet they are economical in cost. Structures of this make have been ordered and reordered by leaders of American industrial work, there being now more than 10,000,000 feet of floor space of these buildings in use for factories, warehouses, foundries, shops, service stations, garages, etc.

General Contract For Piping.

The Cherokee Spinning Co., Knoxville, Tenn., recently let a general contract for humidifying, heating, process piping, and fire protection systems to the Parks-Cramer Company, Charlotte, N. C. The humidifier system is to be of the latest high-duty type complete with automatic humidity regulation. The process piping includes the complete layout for the slashers, dyeing and finishing machinery. The fire protection layout will be the regular standard inside installation with a very extensive system of underground yard mains. The heating system is of the latest vacuum type. The whole complete piping installation is being handled as a unit, for which the contractors have exceptional facilities.

Important Engine Plant Merger.

The Charter Gas Engine Co., Sterling, Ill., has purchased the entire Mietz oil engine business, (also known as Mietz & Weiss, heretofore conducted at 128-138 Mott St., and 430 East 19th St., New York City, by the August Mietz Corporation and the Reliance Oil Engine Corporation. This, according to the announcement of the deal, effects a merger under one management of two of the oldest and best known internal combustion engines in the world. The Charter Gas Engine Co. is now moving the physical assets for Mietz engine production from New York to Sterling where that engine will hereafter be made; meanwhile it is filling repair orders from New York. A number of the men engaged in manufacturing the Mietz engines have been engaged by the Charter Gas Engine Co. for the purpose of continuing their production under experts. Arrangements have been made for additional floor space, almost doubling the Charter plant's area. This company's business was begun in 1858 and manufactured gas engines; it was incorporated in 1871. After April 1, all parts for Mietz engines will be shipped from Sterling. The New York office at 128 Mott St. will be continued for the present under the management of Jules Roos but correspondence relating to the Mietz engines should be sent to the plant at Sterling, Ill.

Caution

Caution is care. It does not hinder, nor does it cause loss of time. It watches, it sees, it commands. Its one purpose is to lead the ship of business to success. It is common sense on the navigating bridge.

Business leaders recognize the present as a time of promise. But they preach CAUTION. Their advice is to resist temptations to heed boom talk; to seek sure profits and not to speculate; move solidly rather than swiftly; to be vigilant.

Business vigilance is impossible without facts and figures—complete, up-to-the-minute and dependable. Out-of-date figures, incomplete facts! They are the dead eyes of blind business. They are dangerous.

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At a Stated Term of the District Court of the United States for the District of Rhode Island, Held at the City of Providence on the Third day of March, 1923.

PRESENT, HON. ARTHUR L. BROWN, Judge.

AMERICAN & BRITISH SECURITIES CO., Plaintiff, against AMERICAN & BRITISH MFG. CORP., Defendant—Equity No. 131

Geo. C. Van Tuyl, Jr., Ancillary Receiver herein, having duly moved this Court for an order authorizing and directing the sale of the assets of the defendant corporation at public auction, and under the rules and practice of this Court, and said motion having come duly on to be heard before me on this 3rd day of March, 1923, and William Dewey Loucks, Esq., Counsel to the Defendant Corporation, Henry V. Poor, Esq., Counsel for the Committee of Creditors, Messrs. Larkin, Rathbone & Perry, Counsel for the Central Union Trust Company of New York, as Trustee, under a certain trust mortgage, more particularly described in the petition of the Receiver herein, Charles F. Choate, Jr., Counsel for the New Idria Quicksilver Mining Company and G. W. McNear, Inc., mortgagees, having received notice of said motion, proof of such notice having been duly filed herein, and Ralph Greenlaw, and Louis H. Strouse, Counsel to the Receiver, having appeared in support thereof.

Now, upon all the pleadings and proceedings heretofore had herein, and upon the petition of the said Ancillary Receiver in Equity, verified the 28th day of February, 1923, and upon motion of Ralph Greenlaw, and Louis H. Strouse, Counsel for said Receiver, it is

Ordered that all of the property, assets and effects except cash and accounts and choses receivable of American & British Manufacturing Corporation, the defendant above named, now in possession or under control of the aforesaid Ancillary Receiver, be sold to the highest bidder at public auction sale, subject, however, to the limitations hereinafter contained:

First: Parcel A. Shall comprise all the land and buildings of the defendant corporation located in the District and State of Rhode Island, and all the right, title and interest of the Receiver and Ancillary Receiver therein, more fully described as follows:

(a) "All that certain tract or parcel of land, with all the work shops, buildings and other improvements thereon, situated in the northerly part of the City of Providence, in the State of Rhode Island, and comprising the manufacturing establishment and plant formerly belonging to the American & British Manufacturing Company, and prior to the Corliss Steam Engine Company, and more particularly bounded and described as follows, to wit: Northerly, partly by land now or formerly of the Rhode Island Tool Company, and partly by West River Street; easterly, partly by said West River Street and partly by Cross, formerly Burt Street; southerly, partly by said Cross Street, and partly by Charles Street; westerly by the railroad formerly called and known as the Providence and Worcester Railroad, being the tract or parcel of land designated as Lot Numbered 2, on Assessor's Plot No. 76, in the office of the Assessor of Taxes in the said City of Providence except the portion theretofore conveyed to The New York, New Haven & Hartford Railroad Company, containing three hundred sixty-one thousand, one hundred seventy-eight (361,178) square feet of land, be the same more or less; also

(b) "All that certain tract or parcel of land situated in the southerly and westerly side of Admiral Street, in said City of Providence, and bounded and described as follows, to wit:

"Beginning at a point in the westerly line of Admiral Street, forty (40) feet northerly from the intersection of the northerly line of Chad Brown Street with said westerly line of Admiral Street; thence turning at right angles to said westerly line of Admiral Street and running westerly ninety-eight (98) feet, thence southerly on a line parallel with and ninety-eight (98) feet distant from said westerly line of Admiral Street, forty and one-half (40½) feet to the northerly line of said Chad Brown Street, thence turning and running in a westerly direction, following the said northerly line of said Chad Brown Street, five hundred and two (502) feet; thence turning and running northerly parallel with and six hundred (600) feet distant from said westerly line of Admiral Street, two hundred and forty-three and fourteen one-hundredths (243.14) feet; thence turning at right angles and running six hundred (600) feet till it comes to the westerly line of Admiral Street; thence turning at right angles and running southeasterly in said westerly line of Admiral Street two hundred (200) feet to the point of beginning, and containing three and two hundred and thirty-five thousandths (3.235) acres of land, except so much thereof as has been deeded to the City of Providence for highway purposes; the above two parcels being the same premises heretofore conveyed to the International Power Company by Alfred H. Hoadley, of Providence, Rhode Island, by deed bearing date the 3rd day of May, 1902, and recorded in Providence, Rhode Island, in Records of Deeds, Book 445, page 440, on May 5th, 1902; and being the same premises conveyed to American & British Manufacturing Corporation by American & British Manufacturing Company by deed dated July 1, 1919, and duly recorded in Providence, Rhode Island, in Records of Deeds."

Parcel B. Shall comprise of the heavy or fixed machinery of the defendant corporation located in the plant or factory of the defendant corporation or elsewhere in the State of Rhode Island, including all the right, title and interest of the Receiver and Ancillary Receiver therein.

Parcel C. Shall comprise all the office furniture, tools, equipment and merchandise belonging to defendant corporation located in the plant or factory of the defendant corporation or elsewhere in the State of Rhode Island.

Second: The property shall be sold under the following conditions and in the order named herein, viz.:

(a) It shall be first offered as an entirety and a record shall be kept of the amount of the highest bid so received.

(b) Immediately thereafter bids shall be asked for the land and buildings only as a whole or in parcels, and a record shall be made of the highest bid then received.

(c) Thereupon bids shall be asked for the machinery, equipment and all other personal property in one lot, and a record shall be kept of the highest bid so offered.

(d) And finally the machinery, equipment and all other personal property shall be offered in individual lots, and the said lots to be set out and described at least two weeks in advance of the date of sale; and a record shall be kept of each bid offered for each lot; the lots to be sold in the order of listing.

When all the assets have been offered as defined in (a), (b), (c), (d) a computation shall be immediately made to determine which combination of bids made will yield the highest price to the estate as follows:

If the price offered for the real estate and personalty as an entirety shall exceed the total of the highest bids for the real estate offered separately and the personalty offered separately or in lots it shall be submitted for confirmation.

If the price offered for the real estate and personalty as an entirety shall not exceed the total of the respective bids when offered individually, then the bids offered individually shall be submitted for confirmation subject to the following:

If the aggregate of the bids offered for the individual lots of personalty shall exceed the bid for the personalty in one lot, then the former shall be submitted for confirmation, but not otherwise.

Further ordered that all bids shall be expressly made and accepted by the Auctioneer and the Receiver, conditioned upon the approval of this Court and shall be accompanied by cash or certified cheque for at least ten per cent (10%) of the amount of such bid, drawn upon a Bank or Trust Company acceptable to the Receiver and payable to his order. Deposits received from unsuccessful bidders shall be returned to them upon the final rejection of their bids. The deposit of the successful bidder or bidders may be applied on account of the purchase price, or may be held as security for the performance by the bidder of the terms of his accepted bid, and in the event of his failure to perform in full the terms and conditions of the decree of confirmation, the full amount of the deposit may be declared by the Court forfeited. The balance remaining unpaid on any and all accepted bids, as provided by the Court, shall be paid to the Receiver within five days after the entry of Order of Confirmation without further notice to the successful bidder or bidders. Any bidder may make one or more bids not inconsistent with this order, in the alternative, or otherwise.

Further ordered that the aforesaid property both real and personal be sold free and clear of all liens and demands thereon, including a certain alleged mortgage made by the defendant corporation to the Central Union Trust Company of New York, as Trustee, dated October 1st, 1920; also a certain alleged mortgage bearing date the 18th day of October, 1920; recorded in the Braggsport and Records Book 469 on Page 327, on the 22nd day of October, 1920, unto the New Idria Quicksilver Mining Company, a corporation organized and existing under the laws of the State of Wyoming, and G. W. McNear, Inc., a corporation organized and existing under the laws of the State of California.

Further ordered that the net proceeds arising from the sale of the said property affected by the said alleged mortgages, shall be held by the Receiver herein, and deposited in a Bank or Trust Company in the City of Providence, in this District, and not paid out or distributed except upon further order of the Court, entered after notice to the said alleged mortgagees or their attorneys, and the lien of all alleged mortgages shall attach thereto, but without prejudice to or limitation upon such power as this Court may have to order the payment for care, preservation, expenses of sale, taxes and administration expenses therefrom.

Further ordered that the defendant corporation and its proper officers be and they hereby are ordered and directed to make, execute and deliver any and all deeds, conveyances or other written instruments necessary to convey title to any or all of the property of the defendant corporation which may be sold hereunder, and it is further

Ordered that the said Receiver be and he hereby is authorized to receive in his discretion in part payment upon the sale of any of the real estate hereunder named and described in Parcel A. a purchase money mortgage or purchase money mortgages executed in due form from the purchaser, and it is further

Ordered that the said real property and assets of the defendant corporation included in parcels A, B and C. shall be sold at the office or at the premises of the defendant corporation in the City of Providence, in the State of Rhode Island, on Tuesday, the 10th day of April, 1923, at 10 o'clock A. M., on that day, without further notice by the Court.

The publication hereof, shall be made in at least one newspaper in the cities of New York, N. Y., and Providence, Rhode Island, to be selected by the Receivers and also in such trade papers and newspapers and such other cities as they may in their judgment deem advisable, and such publications to occur at least once a week for four successive weeks, and also on the date of the sale.

This order, shall be subject to the approval of the District Court of the United States for the Southern District of New York.

After the bids shall have been received, at such auction sale, the Receiver shall submit such bids, together with his recommendations thereon, to the Court.

The decree of confirmation of sale or sales shall contain appropriate provisions directing the Receiver and the defendant to execute and deliver such instruments and to do such acts as may be necessary to vest in the successful bidder or bidders, or his or their nominees, the respective rights, titles and interests of the Receivers and of the defendant in and to the property and assets purchased by the successful bidder or bidders upon compliance by such bidder or bidders with the terms of the decree of confirmation. Any purchaser may apply to this Court at the time of the said Receiver's report above provided for such further order or orders in connection with the said purchase by him, as may be just and equitable.

This order is without prejudice to any lien which Messrs. Waterman & Greenlaw Attorneys at Law, may have and which shall attach to the proceeds of said sale.

A copy of this order shall be mailed to each known creditor of the defendant at least fourteen (14) days prior to the time of sale.

The amount of any deposit paid by any purchaser, hereunder shall be returned to said purchaser, upon failure of the Receiver to tender marketable title of the Receiver and defendant to the property sold to such purchaser.

ARTHUR L. BROWN,
U. S. D. J.

The said sale is to be conducted by G. L. & H. J. Gross and Joseph Feldstein, licensed auctioneers.

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EARNINGS: The operating profits of the Company for the past six years averaged, after taxes, approximately three and one-half times the interest on these bonds, and for 1922, the earnings, after taxes, and applicable to the payment of interest on these bonds, were over five times the interest on these bonds.

ASSETS: The Company's net tangible assets, after deducting all liabilities other than these bonds, amount to approximately \$3,500 for each \$1,000 bond issued.

SINKING FUND: An annual cumulative Sinking Fund, beginning February 1, 1925, will retire these bonds by maturity.

Appraisal by J. E. Sirrine & Company,
Greenville, S. C.

Audit by Ernst & Ernst, of Atlanta.

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Price 100 and Accrued Interest Yielding 7%

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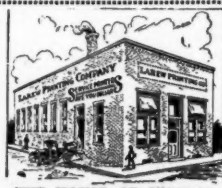
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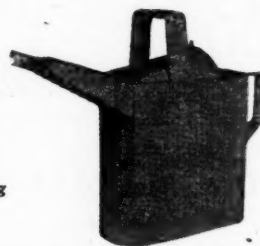
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PROPOSALS

BOND ISSUES

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Bids close April 5, 1923.

PROPOSALS for steel, locomotive wheels, iron or steel rope, iron and steel pipe, gasoline pump, watthour meters, motors, steel conduit, Pierce pins, receptacles, sockets, white hard horn fiber, varnished silk, spark plugs, vacuum tubes, waffle irons, nails, metal polish, glass, oars, grommeters, insect screening, wire lath, poultry netting, brushes, rubber matting, cheesecloth, paints, varnishes, linseed oil, asphalt cement, fire clay, calcium carbide, ink, paper napkins, wrapping paper, bristol-board, wax stencil paper, ethyl alcohol, lumber, and creosoted piles.—Sealed proposals will be received at the Office of the General Purchasing Officer, The Panama Canal, Washington, D. C., until 10:30 o'clock a. m., April 5, 1923, at which time they will be opened in public, for furnishing the above-mentioned articles. Blanks and information relating to this Circular (1520) may be obtained from this office or the office of the Assistant Purchasing Agents, 24 State Street, New York City; 611 Gravier Street, New Orleans, La.; and Fort Mason, San Francisco, Calif.; also from the United States Engineer Offices in the principal cities throughout the United States.—A. L. FLINT, General Purchasing Officer.

Bids close April 3, 1923.

PROPOSALS FOR MANILA ROPE.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn.—Sealed proposals will be received here until 11 a. m., April 3, 1923, and then opened, for furnishing and delivering approximately 103,000 pounds Manila Rope. Further information on application.

Bids close March 26, 1923.

PROPOSALS FOR GALVANIZED WIRE, WIRE STRAND, STAPLES AND WIRE ROPE CLIPS.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn.—Sealed proposals for furnishing and delivering 870,000 pounds galvanized wire, wire strand, and staples, and 24,000 wire rope clips, will be received at this office until 11 A. M., March 26, 1923, and then opened. Further information on application.

Bids close April 20, 1923.

UNITED STATES ENGINEER OFFICE, FLORENCE, ALA.—Sealed Proposals will be received here until 11 a. m., April 20, 1923, and then opened, for furnishing and delivering six sets of cylinder valves, operating mechanism for the same, etc., for the navigation lock of Wilson Dam. Further information on application.

Bids close April 20, 1923.

U. S. ENGINEER OFFICE, JACKSONVILLE, FLA.—Sealed proposals will be received here until 12 m., Apr. 20, 1923, and then opened for furnishing and delivering Dredging Pump for the U. S. dredge BARNARD. Further information on application.

Bids close April 3, 1923.

UNITED STATES ENGINEER OFFICE, Florence, Ala.—Sealed proposals will be received here until 11:00 A. M., April 3, 1923, and then opened, for furnishing head-gate track, screen track, seat castings, vent-outlet castings, together with bell-mouth castings, etc., for the power house section of Wilson Dam. Further information on application.

Bids close April 3, 1923.

U. S. ENGINEER OFFICE, Jacksonville, Fla.—sealed proposals will be received here until 12 M., April 3, 1923, and then opened for dredging and rock removal in Tampa Harbor, Fla. Further information on application.

Bids close April 7, 1923.

U. S. ENGINEER OFFICE, Drawer 421, Vicksburg, Miss. Sealed proposals will be received here until noon, April 7, 1923, and then opened for furnishing and delivering about 467,000 pounds of structural metal for locks and dams Nos. 5 and 8, Ouachita River, La. and Ark., and for erecting four steel gates at No. 5 and modifying two steel lock gates at No. 8. Information on application.

Bids close April 4, 1923.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 19, 1923.—SEALED PROPOSALS will be opened in this office at 3 p. m., April 4, 1923, for interior painting, finishing, etc., of buildings and structures, as listed, for the United States Veterans Hospital, at Perryville, Md. Specifications may be obtained at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close April 16, 1923.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 15, 1923. SEALED PROPOSALS will be opened in this office at 3 p. m., April 16, 1923, for an ice-making and refrigerating plant at the U. S. Veterans' Hospital, Chelsea, N. Y. Specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtaining a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

Bids close March 27, 1923.

\$525,000 6% County Bonds.

Sebring, Fla.

The Commissioners of Highlands County, Florida, call for bids on March 27, 1923 at 11 A. M., on \$525,000.00 6% County bonds, interest payable semi-annually. Thirty year bonds, \$5000.00 due Jan. 1, each year 1924 to 1923 inclusive \$25,000.00 due Jan. 1, 1935, 1937, 1939 to and including Jan. 1, 1951, \$50,000.00 due Jan. 1, 1952 and 1953. Address: C. F. SAUNDERS, Clerk, Sebring, Fla.

WILLIAM KING, Chairman.

Bids close April 2, 1923.

\$100,000 5% Bridge Bonds

Greenville, N. C.

On April 2nd, 1923, at the courthouse in Greenville, North Carolina, the Board of County Commissioners will offer for sale \$100,000.00 of bridge bonds of said county of Pitt, to be dated April 1st, 1923, and to mature serially, \$5000.00 per year, beginning 1928, denomination \$1000.00, bearing 5% interest, payable semi-annually. The bids must be sealed and delivered to the Clerk of the Board by ten o'clock, A. M., April 2nd, 1923. Certified check for \$5000.00 must accompany each bid. Right to reject any and all bids reserved.

W. W. DAWSON, Chairman.
J. C. GASKINS, Clerk.

Bids close April 2, 1923.

\$250,000 5% Bonds

Dobson, N. C.

On the first Monday in April, 1923, at 12 o'clock M. at the courthouse in Dobson, One Hundred and Fifty Thousand (\$150,000.00) Dollars of Surry County Good Road Bonds will be offered for sale at public auction. The bonds run thirty years and bear five per cent interest, with coupons attached, payable semi-annually. All bids must be accompanied with a certified check of Twenty-Five Hundred (\$2500.00) Dollars. The Board reserves the right to reject all bids.

At the same time One Hundred Thousand (\$100,000.00) Dollars of thirty year Surry County bonds, bearing five per cent interest, with coupons attached, payable semi-annually, will be offered for sale. The said bonds are issued to refund bonds heretofore issued for necessary expenses of the county. Sale of these bonds will be made at public auction and all bids must be accompanied with a certified check of Twenty-Five Hundred (\$2500.00) Dollars.

The opinion of Reed, Dougherty & Hoyt of New York will be furnished as to the validity of the bonds on the day of sale. This 5th day of March, 1923.

Board of County Commissioners of Surry County.

By W. J. BYERLY,
Chairman.

Bids close April 5, 1923.

Road and Bridge Construction.
OFFICE VIRGINIA STATE HIGHWAY COMMISSION.

Richmond, Va., March 12, 1923.
Sealed bids will be received at this office 413 N. 10th St., Richmond, Va., until 10:30 A. M. Thursday April 5, 1923, for the construction of:

1—PROJ. F246—RT. 12Y, Franklin to N. C. Line, in Nansemond County, approx. 7.26 miles of 18' one course concrete pavement. Alternate bids using concrete base and asphalt top. Approx. 10 A Clearing; 51,346 cu. yds. excava; 1078 lin. ft. C. I. pipe; 440 lin. ft. V. C. pipe encased in concrete; 75 cu. yds. A conc.; 70 cu. yds. B. conc. 4071 lbs. reinf. steel. Certified Check \$5000.00.

2—PROJ. F178, RTI—Clarksville, N. C. Line, in Mecklenburg County, 6.13 mi. 18' one course concrete; Alternate bids on Bit. Mac.; Alternate bids on concrete base asphalt top; Approx. 16 A Clearing, 43,400 cu. yds. excav; 782 lin. ft. C. I. Pipe; 654 lin. ft. V. C. Pipe, 110 cu. yds. A conc.; 100 cu. yds. B. Conc.; 9100 lbs. reinf. steel; 2169 lin. ft. guard rail. Cert. Check \$5000.

3—PROJ. S208—RT 11, Br. over Clinch River, Sta. 640/00 length 178', approx. 409.2 cu. yds. Class A conc.; 55.3 B. conc.; 59,155 lbs. reinf. steel. Cert. Check \$975.00
Br. over Pounding Mill Branch, station 701/90, Length 38 ft. approx. 44.6 cu. yds. A conc. 138.8 cu. yds. B. conc.; 9405 lbs. reinf. steel. Cert. check \$250.00.

Bid bond 20% in excess of certified check required.

Engineers will show prospective bidders over Projects as follows:

Project F246—Franklin Hotel, Franklin, Va., 10 A. M., Wednesday, March 21st.
Proj. F178 Grace Hotel, Clarksville, Va., 9:30 A. M., Thursday, March 22nd; Proj. S208, Pounding Mill Station 11 A. M., Wednesday, March 28th.

Plans and spec. are on file at the office of the State Highway Dept. Richmond, and District Engineers' office as follows:

Proj. F178, Richmond. Proj. F246, Suffolk; and Proj. S208, Bristol.

Plans for bidders can be obtained at the office of the State Highway Commission, upon receipt of \$5 payable to H. G. Shirley, \$2.50 will be refunded if the plans are returned in good condition within two weeks after bids are opened. Bridge plans on Proj. 208 from W. F. Hobart, 805½ E. Franklin St., Rd. Va., at 72c. per set.

The State Highway Commission reserves the right to reject any or all bids.

C. S. MULLEN,
Acting Commissioner.
H. G. SHIRLEY,
Chairman.

Bids close April 9, 1923.

Concrete Roads

Shreveport, La.
Bids will be received by Police Jury of Caddo Parish, Shreveport, La., until 10 A. M. April 9th, for construction of five miles of eighteen foot concrete road. Full particulars may be obtained from J. T. Bullen, Parish Engineer, Shreveport, La.

Bids close April 3, 1923.

Concrete and Asphalt Roads

STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS

Baltimore, Md.
SEALED PROPOSALS for building six sections of State Highways, as follows:
GARRETT COUNTY—Cont. G-20-A—One section of State highway along Bear Creek between Friendsville and Kaese's Mill, a distance of 4.96 Miles—Concrete.

FREDERICK COUNTY—Cont. F-53—One section of state highway along the Urbana Pike between Urbana and the Montgomery County Line, for a distance of 20 miles—concrete.

BALTIMORE CITY—Cont. BC-25-A—One section of state highway along Mount St. between Harlem Ave. and Riggs Ave. and between Laurens St. and North Ave. for a distance of 0.78 miles—Asphalt.

BALTIMORE COUNTY—Cont. B-53—One section of state highway along the Philadelphia Road between Whitmarsh and the Harford County Line, a distance of 4.5 miles—Concrete.

CAROLINE COUNTY—Cont. CO-33—One section of state highway between Goldsboro and Maryland, for a distance of 4.5 miles—(Concrete).

WICOMICO COUNTY—Cont. WI-22—One section of state highway between Salisbury and Delmar for a distance of 2.8 miles—(Concrete).

will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 3rd day of April 1923, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission, 14th day of March 1923.

L. H. STEUART, Secretary.
JOHN N. MACKALL, Chairman.

Bids close April 4, 1923.

Road Improvements

OFFICE OF THE STATE ROAD DEPARTMENT.

Tallahassee, Fla., March 14, 1923.
Sealed proposals will be received at this office up to 12 o'clock M. on the 4th day of April, 1923 for the construction or improving of the following sections of roads:—

Project No. 546, being a portion of Road No. 4 in Brevard County, from Sharpes North towards Titusville, a distance of approximately 5.0 miles. Work to consist of the construction of rock base and the necessary drainage structures.

Project No. 554, being a portion of Road No. 4 in Brevard County, from Bonaventure South towards Eau Gallie, a distance of approximately 5.0 miles. Work to consist of the construction of rock base and the necessary drainage structures.

Project No. 507, being a portion of road No. 4 in Flagler County, from Bunnell to asphalt road in Volusia County, a distance of approximately 10.0 miles. Work to consist of the construction of the necessary drainage structures and rock base.

All work to be done in accordance with plans and specifications of the State Road Department.

A certified check or bidder's bond in the sum set forth for each project made payable to the Chairman of the State Road Department must accompany each proposal.

Project No. 546.....\$6,000.00
Project No. 554.....\$6,000.00
Project No. 507.....\$10,000.00

Plans and Specifications are on file at this office and at the office of the Division Engineer, Fort Pierce, Fla., for Projects 546 and 554. For Project 507 they are on file at the office of the Division Engineer, Ocala, Fla. They can be secured upon application to this office for the sum of Five Dollars.

An Engineer of the Department will be at the office of the County Clerk, Titusville, Fla., for the purpose of showing prospective bidders over the work on projects 546 and 554, Mar. 27, 1923, and at Bunnell Mar. 28th for Project 507.

The right is reserved to reject any and all bids.

H. B. PHILIPS,
Chairman.

W. F. COCKE,
State Highway Engineer.

Bids close April 5, 1923.

Road Improvement

SUMTER COUNTY PERMANENT ROAD COMMISSION.

Sumter, S. C.
Notice is given that sealed proposals will be received by the Sumter County Permanent Road Commission at the City Council Chamber in Sumter, S. C., until 10 o'clock A. M. Thursday, April 5th, 1923 for grading, drainage structures and several types of Hard Surface Pavement on the following roads:

Oswego Road7.89 miles
Wedgfield Road9.74 "
Pocallo Road4.13 "

Bids on each road must be accompanied by bidders' bond or certified check for \$2000. If the work is bid on as a whole, a check for \$4000 must be submitted.

Plans for the work may be seen at the office of the Engineers, Lee, Pennell & Murray, Sumter, S. C. Specifications and proposal forms may be obtained from the engineers upon request accompanied by a check for \$5 which sum will be refunded if same are returned within thirty days after receipt of bids.

The right is reserved to reject any or all bids and to waive all technicalities.

SUMTER COUNTY PERMANENT ROAD COMMISSION.

Sumter, South Carolina.
LEE PENNELL & MURRAY,
Engineers.
Sumter, South Carolina.

Bids close March 29, 1923.

Street Improvements.

Wadesborough, N. C.

Sealed proposals or bids for the construction of certain streets in the Town of Wadesborough, N. C. will be received by the Mayor and Board of Commissioners of said Town at the Town Hall, until two (2) o'clock P. M. of Thursday, March 29, 1923, at which time and place they will be publicly opened and read aloud.

Bids are asked on approximately 60,000 square yards of sheet asphalt, warrentite-bitulithic, bituminous concrete, or any other type of permanent pavement, together with incidental work. The work will be constructed from one or more types as may be selected by the Town. Bids are also asked on approximately 15,000 square yards of sidewalks.

Information for Bidders, Specifications, Form of Proposal, Contract and Bond may be obtained by prospective bidders by addressing the Engineer at High Point, N. C., and making a deposit of Ten Dollars, which deposit will be refunded upon the return of the specifications in good condition.

A properly certified check in the sum of five (5%) per cent of the amount bid, payable to the Town of Wadesborough, N. C. will be required with each bid.

The Town reserves the right to reject any or all bids or to accept any bid it may deem to be for the best interests of the Town.

W. P. PARSONS, Mayor.
L. D. RIVERS, Clerk & Treas.
A. E. TAPLIN, Consulting Engineer.
High Point, North Carolina.

Bids close April 2, 1923.

Street Improvements.

Cloverdale, Ala.

Sealed proposals will be received by the undersigned at his office, 700 Felder Avenue, Cloverdale, Montgomery County, Alabama, until 3 o'clock P. M., on the 2nd day of April, 1923, for certain grading, curbing and guttering, drains, and sheet asphalt or bitulithic paving on a concrete base (total approximately 21,000 square yards) under Improvement Ordinance No. 1, adopted by the Town of Cloverdale on the 20th day of February, 1923.

Specifications may be obtained and plans examined at the office of Mr. Grover Keyton, City Clerk, in the Union Bank & Trust Co., of Montgomery, Alabama, or at the office of the Consulting Engineer, 415 Brown-Marx Bldg., Birmingham, Ala. Certified check for \$5,000 must accompany each bid. The right is reserved to reject any or all proposals.

W. A. GRAVES, Mayor.
ROBERT L. TOTTEN,
Consulting Engineer.

Bids close April 13, 1923.

Clearing of Right-of-Way.

Fayette, Ala.

Sealed proposals for clearing the Right of Way of the Main Canal and Laterals of The Fayette and Lamar County Drainage District No. 1, will be received by the Board of Drainage Commissioners up to 12 o'clock, Noon, on the 13th day of April, 1923 at the Courthouse in Fayette, Fayette County, Alabama.

The work to be done consists of clearing approximately 50 miles of Right of Way for the Main canal and laterals, embracing approximately 800 acres.

Plans and specifications will call for the work to be begun within one month from date of letting of contract and to be completed from 3 to 5 miles ahead of the dredge.

A certified or cashier's check in the sum of \$500.00 must accompany each bid for the whole contract, and no bid for less than the whole contract considered, made payable to the Board of Drainage Commissioners of The Fayette and Lamar County Drainage District No. 1, as an evidence of good faith. Checks of unsuccessful bidders will be returned.

All bids must be in sealed envelopes and plainly marked, "Bids for Clearing Right of Way, Main Canal and Laterals," and addressed to Marion L. Coons, Secretary, Board of Drainage Commissioners, Fayette, Alabama.

Plans and specifications are on file at the office of the Judge of Probate of Fayette County, Alabama, or may be obtained from Guy A. Hart, Superintendent of Construction, Fayette, Alabama.

The Board of Commissioners reserves the right to reject any and all bids.

WM. M. SUDDUTH, Chairman.
MARION L. COONS, Secretary.

Bridge Contract to Sub-Let

To Sub-Let bridge contract at once Ashe County, North Carolina, Project 712 Approximately 1200 cu. yds.

J. T. PLOTT,
Greensboro, N. C.

Bids close April 2, 1923.

Steel Bridge

Fayetteville, N. C., March 9, 1923.

The County Commissioners of Cumberland County, North Carolina, will receive bids up to April 2nd, 1923, at 12 o'clock, noon, for a one span steel bridge 80 feet long with a 16 foot driveway.

Bids will be received either for the bridge delivered or for the bridge erected.
E. A. POE, Chairman.
C. C. HOWARD, Clerk.

Bids close April 5, 1923.

Concrete Wharf, etc.

New Orleans, La.

Sealed proposals will be received by the Board of Commissioners of the Port of New Orleans at their office, Suite 200 New Court Building until 3:00 P. M., April 5, 1923, and then publicly opened for concrete wharf, chain walls and column footings for shed at Chalborne Avenue Landing.

A deposit of \$10,000 in cash or certified check is required with each proposal.

A bond to the amount of 50% of the sum bid is required with notarial contract. Specifications and proposal forms are on file in the office of the Supervisor of Purchases, at No. 1 Canal Street, New Orleans, Louisiana. Complete sets will be furnished to prospective bidders on deposit of \$5, which will be refunded to depositors who submit proposals, or return sets in good condition.

The right is reserved to reject any or all bids and to waive informalities.

J. H. WALSH,
General Manager.

Bids close April 3, 1923.

Improvements to Heating Equipment.

Blacksburg, Va.

Sealed proposals will be received at the office of Dr. Julian A. Burruss, President, Virginia Polytechnic Institute, Blacksburg, Va., until 12 o'clock noon, April 3, 1923, for general improvements to heating equipment, etc. for the Virginia Polytechnic Institute, Blacksburg, Va., according to plans and specifications prepared by the Faculty Committee on Physical Plant, Prof. J. S. A. Johnson, Chairman, and Wiley & Wilson, Consulting Engineers, Lynchburg, Va.

Plans and specifications will be on file at the offices of Prof. J. S. A. Johnson, First Academic Building, Virginia Polytechnic Institute, Blacksburg, Va. and Wiley & Wilson, Consulting Engineers, Lynchburg, Va.

Copies of the plans and specifications may be obtained by contractors of recognized responsibility by application to the Consulting Engineers. A deposit of \$25.00 will be required for each set of plans and specifications as evidence of good faith and as a guarantee that all plans and specifications will be returned promptly when the deposit will be refunded.

Proposals are to be accompanied by certified check as called for in the proposal form bound with the specifications.

The right is reserved to reject any or all bids or to award contract to others than the lowest bidder, if, in the judgment of the Board of Visitors, the interest of the State will be best served by so doing.

Bids close April 2, 1923.

Horizontal Water Tube Boiler

Norfolk, Va.

Sealed bids will be received at the office of the City Manager, City of Norfolk, Virginia, until 12:00 noon on the 2nd day of April, 1923, for one Horizontal Water Tube Boiler of approximately 225 h.p., complete with setting, on purchaser's foundation.

Instructions to Bidders, Form of Proposal, Specifications, Contract and Form of Bond may be inspected at the Office of the Director of Public Works, Norfolk, Virginia, or at the Office of the Consulting Engineer, Dabney H. Maury, 1445 Monadnock Block, Chicago, Ill., and a complete set of all the above papers may be obtained by intending bidders either from the Director of Public Works or from the Consulting Engineer, upon application accompanied by a check or Postal Order for ten (\$10.00) dollars, payable to B. Gray Tunstall, City Treasurer, which amount will be refunded to the party depositing it on return of all of the foregoing papers in good order.

A certified check on an approved bank either in the City of Norfolk, or in the City of New York, or in the City of Chicago, in the sum of \$300.00, and payable to B. Gray Tunstall, City Treasurer must accompany each bid, subject to the conditions expressed in the Instructions to Bidders and Form of Proposal.

The City of Norfolk reserves the right to reject any or all bids.

WALTER H. TAYLOR, 3rd,
Director of Public Works.

Bids close April 5, 1923.

Steam Shovel

Key West, Fla., March 9, 1923.

The Board of County Commissioners of Monroe County, Florida, will on the 5TH DAY OF APRIL, 1923, receive bids for the purchase of a one-yard steam shovel; also for a three-quarter yard steam shovel, with 30 Hp. A. S. M. E. boiler, duplex engine, multipedals traction, twenty-one foot boom reach, drums to be furnished for dipper, drag line, clam shell or skimmer, the machine to be of interchangeable type, but only one type will be ordered with full equipment.

Illustrations and full description must accompany each bid.

All bids must state price delivered at Miami, Florida.

Bids must give price (A) equipped to burn wood (B) equipped to burn oil.

A certified check for one per cent of amount must accompany each bid.

The Board of County Commissioners reserve the right to reject any or all bids.

D. J. FILER,
Clerk Board of County Commissioners,
Monroe County, Florida.

Bids close April 5, 1923.

Dust Laying Material

Jacksonville, Fla.

Sealed proposals will be received by the City Commission of the City of Jacksonville until 8 o'clock P. M. Thursday, April 5th, 1923, for one carload, or more, of materials to be used as a dust laying material on shell, limerock and macadam roads. The bidder will submit price for his material in carload lots f. o. b. Jacksonville, Florida, and the City reserves the right to purchase additional cars at the price stated. Bidder will give full description of material, methods of application and results to be expected from the material he proposes to furnish. For further information apply to W. E. Shedd, City Engineer, Main and Orange Streets, Jacksonville, Florida. Each bid shall be addressed to City Commission, be marked as a bid for Dust Laying Material and be delivered through mail or otherwise at the office of the Secretary, Room 13, City Hall. The City reserves the right to reject any or all bids or to accept any bid in part. March 15th, 1923.

Attest:
W. A. EVANS,
Chairman City Commission.
E. P. OWEN, JR.,
Secretary City Commission.

CLASSIFIED OPPORTUNITIES

MINERAL AND TIMBER LANDS WATER POWERS, MISCELLANEOUS PROPERTIES

Wealth in virgin coal fields in Northern Alabama, near Tennessee River. Ready to mine with electric equipment; entries driven. Superior domestic, steam and gas coal; unsurpassed in the South as an export coal. Iron ore, fire-clay, cement rock and limestone in vast quantities. Five million feet of Poplar Oak and Hickory timber on property. Industrial railroad connecting with Southern Ry. system. Soil overlying 16,000 acres ideal for cattle, sheep and Angora goats and for fruit raising. For full particulars, price and terms, write F. D. Pierce, 1505 E. Genesee St., Syracuse, N. Y.

FOR SALE OR LEASE—The mineral and mining rights in 200 acres containing by estimate two million tons of brown phosphate rock running 65% to 75%, one mile from L. & N. R. R. and 40 miles from Muscle Shoals. Government expert has examined and pronounced this ore superior for briquetting and new furnace process. A fine location for Ground Rock Plant. A most attractive price for investment or lease. Investigation invited. Dr. C. A. Abernathy, Pulaski, Tenn.

COAL LANDS AND MINES

FOR SALE—Going coal mines—coal, oil and gas lands—timber tracts. Reports made on same anywhere. E. H. Morris, Box 518, Charleston, W. Va.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost, allow seven words of ordinary length to a line. When the advertisement contains a number of long words, proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c. per line; 300 lines, 26c. per line; 500 lines or more, 25c. per line.

COAL LANDS AND MINES

25,000 ACRES WEST VIRGINIA SMOKELESS COAL LANDS. Will syndicate the above with party of proven financial strength and energy to assist in its immediate development. A. Blaine York, 1246—5th Ave., Huntington, W. Va.

FARM AND TIMBER LAND

FLORIDA—Timber, Colonization and Fruitland tracts any size; best in Florida. MAURER & COMPANY, Orlando, Fla.

FARM, FRUIT, AND TRUCK LANDS**FLORIDA**

FLORIDA:—National Statistics show that FLORIDA is developing faster than any other State in the Union. It is indeed a land of great resources and opportunities—the playground of the Rich; the Paradise of the Poor. Come and be one of us. We have a Home, Grove or Farm for you. Send for booklet "Largest Orange Tree in the World." Tampa-West Coast Realty Co., (Inc.), Opposite Post Office, "Since Before the War," Tampa, Fla.

GEORGIA**SOUTHWEST-GEORGIA LANDS.**

Farm and Stock Raising. 1000 Acres on Trunk line railroad; Railroad Station; Railroad South and East to Coast; National Highway dividing the tract; 750 acres cleared and in cultivation; 150 acres Pasture; 100 A. Woodland and timbered; Running water; 3 Cottages; 4 Tenant Houses; Red and gray lands, level majority little rolling, in one body; half way between 2 good towns, 4 miles each; one railroad junction. Health fine, delightful climate. Address H. M. P., P. O. Box 285, Lumpkin, Ga.

FARM, FRUIT, AND TRUCK LANDS

NORTH CAROLINA

FOR SALE—Fifty acres on Railroad at Lincolnton, plenty of water, fine elevation, good Mill site.

R. E. Costner, Mt. Holly, N. C.

SOUTH CAROLINA

Truck farms that pay dividends annually can be bought at reasonable prices here. Vegetables are shipped eight months in the year. Three and four crops are grown on the same land annually. Excellent climate and health. Plenty of labor; strikes unknown. Well organized association that sells all farm products. For particulars write, Lake Realty Company, Beaufort, S. C.

VIRGINIA

CHOICE ONE-HUNDRED ACRE FARM FOR SALE.

This farm is located on improved highway three miles from the splendid town of Manassas, contains 100 acres of highly improved land all under sod and cultivation. Good buildings, electric lights, dairy barn, and silo. This wonderful place will be sold at \$13,000, on good terms.

We also have listed with us many splendid farms ranging from one hundred to four thousand acres about which we would be glad to furnish particulars. Write, wire, 'phone or call. We sell the earth.

C. J. MEETZE & COMPANY,
Manassas, Va.

BEAUTIFUL VIRGINIA ESTATE AT A SACRIFICE.

One of the most magnificent Virginia estates of its size, with the most elaborate and splendidly constructed modern mansion with 445 acres of excellent land, within one mile of station on double track Southern Railway within 37 miles of Washington City. Large barn with two silos, three tenant houses, other outbuildings, and beautiful stream passing through farm. The mansion on this estate cost twenty three thousand to construct it when labor and material were low. The buildings carry twenty-three thousand insurance. The owner of this property has placed it with us for immediate sale at the ridiculously low figure of thirty-seven thousand dollars upon excellent terms. Anyone interested in a splendid farm at the best price ever made upon such an estate should not delay. You will find it even better than the description.

C. J. MEETZE & COMPANY,
Manassas, Va.

LARGE VIRGINIA ORCHARD AND DAIRY ESTATE.

Ben Lomond Farm, containing 1912 acres is on a public highway, within two and a half miles of Manassas, thirty-three miles of Washington City. It is a part of the old historic Battlefield of Bull Run. The buildings are modern and very substantial. Largest and best barn in this country. All modern improvements on farm. Great dairy herd of fine registered Holsteins. This estate was purchased by a gentleman in Ohio for his son, who later died with the flu. This is the only reason for selling. No incumbrances whatever, title perfect. Forty-five hundred apple trees of choice varieties just coming into bearing. Price of farm and buildings \$125,000. Complete with dairy herd of more than 130 head Holsteins, ten horses, all equipment and crops for \$150,000. Terms: \$50,000 cash and balance at \$10,000 per year with 6% interest payable semi-annually. If interested and mean business, abstract of farm will be sent for inspection and we shall call to see you if necessary. No trading proposition considered unless property is absolutely free from incumbrance and situated in a thriving city. Write, 'phone wire or call on

C. J. MEETZE & COMPANY,
Manassas, Va.

BUSINESS OPPORTUNITIES

UNUSUAL OPPORTUNITY. Would sell half interest and turn over complete management of established and fast growing electrical contractor dealers business, located in one of North Carolina's best cities. Owner broadening into wholesale. Unable to manage both. Do not apply unless you are physically alert and experienced. Big business in sight. Must have good personality and fair education with few thousand to invest. Act quick giving full information. Address No. 6145 Manufacturers Record, Baltimore, Md.

BUSINESS OPPORTUNITIES

Wanted: A forwarding agent for a large concern that is figuring on an Export Department. Address No. 6138 care Manufacturers Record, Baltimore, Md.

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW,
Harlow Building, Alexandria, Va. Colorado Building, Washington, D. C.

WANTED: Good reliable parties to help develop the following properties in Macon County, N. C., to wit: Asbestos, Soapstone, Mica, Kaoline and Feldspar. W. B. McGuire, Franklin, N. C.

NEW YORK ADDRESS: Have a down town Broadway address. Excellent service. Handsome offices. \$5.00 per month. New York Business Address Bureau, 173 Broadway, New York.

COLLECTIONS

"Send your past due accounts to us for collection. Commission basis. Correspondents everywhere. Herbert Co., Rand-McNally Building, Chicago, Ill.

FINANCIAL

SOUTHERN
MILL STOCKS
BANK STOCKS
BONDS.

25 years' experience in this field.

F. C. ABBOTT & CO.,
Charlotte, N. C.

"INCORPORATE any enterprise under common law; any capital, transact business any state; no corporation taxes; no personal liability; keep control; very reasonable. Booklet free. Reinsbagen, 2 Rand-McNally Building, Chicago, Ill."

Valuable text books on the "Money Question". The most vital question affecting the welfare of the people—"Daniel on Real Money". New edition being published. "High Cost of Living, Cause-Remedy," 75c. "The Betrayal of the People in the Federal Reserve Act," 25c. The Real Issue—Democracy vs. Plutocracy," 25c. No Plutocratic Peace But a Democratic Victor," 20c. The Monetary Educational Bureau, Kellogg Building, Washington, D. C.

INDUSTRIES WANTED

FREE FACTORY SITES on Belt Line, connecting four trunk line railroads, high tension electric line, two water mains, concrete boulevard.

We own over 4000 acres of land all platted into factory, park, school, church and building sites.

An ideal location for an industrial center, where you can locate your factory and secure cheap building sites for labor.

We will give extraordinary inducements to those who will promote desirable industries.

Write for map showing location, etc.
NANSEMOND INDUSTRIAL CORP.
4 Arcade Bldg., P. O. Box 438
Norfolk, Virginia.

PITTSBURG, KANSAS, in the heart of Kansas coal fields offers reasonable assistance to industries that can stand investigation. Pittsburg population 23,000, county population 65,000, four steam railroads, one electric interurban, annual coal production (tons) 7,500,000. Natural gas, cheap electric power, excellent water and a good place to live. Address Chamber of Commerce.

"INMAN, S. C., wants industries, large and small. Offer cheap power—healthful climate—good labor conditions. Address Inman Chamber of Commerce, Inman, S. C.

INDUSTRIAL PLANTS

FOR SALE—Textile mill construction building 100x300 ft. with fourteen acres land: two thousand feet railroad siding. Additional acreage obtainable, good town, mill section of Georgia, native labor plentiful. Will take stock in textile enterprise for payment and can secure additional stock subscriptions. Write or wire, Manget Bros. Co., Newnan, Ga.

INDUSTRIAL PLANTS

FOR SALE—ON EASY TERMS

Modern two story brick building 55 by 310 feet regular mill construction, fully sprinkled, large platform and sidetrack facilities for eight or ten cars. Large elevator. Adjoining this building is a single story brick building 50 by 90 feet, with boiler room in one section, balance concrete floor. This is an excellent plant and especially suitable for hosiery or knitting mill, located in best city in North Carolina.

J. E. LATHAM CO. OWNERS
Greensboro, N. C.

FACTORY for sale or lease. All or part of 100,000 sq. ft. floor space. Sprinkler System. Steam Heat. Railroad Siding. Central location. Wire King Thompson, 52 West Gay St., Columbus, Ohio.

FACTORY SITES

FACTORY SITE

Suitable for Practically Any Line. Will sell as an inducement to increase Laurel's factories. Adjacent to our plant. Will sell sawmill refuse as fuel to cost in our opinion not more than \$2.00 ton coal. Wausau Southern Lumber Co. Laurel, Miss.

WARSAW, NORTH CAROLINA

FACTORY SITES FREE.

IN HEART OF COTTON BELT.

MUNICIPAL TAXES GIVEN FOR TEN YEARS. WATER WORKS. ELECTRIC LIGHTS. GOOD SCHOOLS. GOOD ROADS. PLENTY OF LABOR. EXCELLENT TRANSPORTATION FACILITIES. FOR FURTHER INFORMATION, WRITE E. A. PEARSALL, TOWN CLERK.

PATENT ATTORNEYS

INVENTORS—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for patent. Book, "How to Obtain a Patent" sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. Chand-lee & Chandlee, 412 7th St. N.W. Washington, D. C.

PATENTS, TRADE-MARKS AND COPYRIGHTS—Write for our Free Illustrated Guide Book and EVIDENCE OF CONCEPTION BLANK. Send model or sketch and description of your invention for our opinion of its patentable nature free. Highest references. Prompt service. Reasonable terms. Victor J. Evans & Co., 712 9th St., Washington, D. C.

PATENTS—Booklet free. Highest references. Best results. Promptness assured. Watson E. Coleman, Patent Lawyer, 624 F St., Washington, D. C.

PATENT SENSE

"The Book for Inventors and Manufacturers." FREE. WRITE LACEY & LACEY, Dept. 15, Washington, D. C. Est. 1869.

AGENCIES WANTED

MANUFACTURERS' AGENTS.—Wanted in every industrial state, acquainted with the trade to sell a high grade complete line of OXY-ACETYLENE WELDING AND CUTTING EQUIPMENT. Address No. 6134 care Manufacturers Record, Baltimore Md.

MANUFACTURERS AGENT with office in Rochester, N. Y. calling on manufacturers in Rochester and Central New York. desires to represent reputable company in this section. Add. 121 Central Bldg., Rochester, N.Y.

SITUATIONS WANTED

Superintendent or Asst., age 40 technically trained, 18 years practical field experience in construction, operation, and maintenance of crusher and concentrating plants with power installation—competent in quarry and pit operation, efficient training and organizing of operating crews, available now. A. 1 references. Address No. 6133 care Manufacturers Record, Baltimore, Md.

MAN NOW HOLDING a responsible position desires to become connected with cotton mill or other manufacturing business, in capacity of assistant secretary-treasurer or similar position where ability and energetic application will be recognized. Will furnish any references required. Address P. O. Box 1193, Columbia, S. C.

SITUATIONS WANTED

Engineer, 35, single, college education; general engineering experience, design and estimating reinforced concrete construction, building specialties estimating; four years responsible charge; desiring position with company manufacturing engineering or building materials. Sales or production work preferred. References. No. 6140 care of Manufacturers Record, Baltimore.

CONSTRUCTION SUPERINTENDENT. at present employed by large Engineering and Construction Co., thoroughly familiar with all classes of concrete and steel construction. Have handled railroad bridge work, concrete and earth dams. Hotels, office and industrial buildings. Estimator, have handled Southern labor for ten years. Will go anywhere. Age thirty-six, references. Address No. 6148 care Manufacturers Record, Baltimore, Md.

MEN WANTED

SUBSCRIPTION SOLICITORS WANTED
In the South.

The MANUFACTURERS RECORD wants subscription representatives in every Southern community; alert, aggressive men who can give either whole or part time to the work. Liberal remuneration and attractive territories open. In submitting application please give age, experience in soliciting work, names and addresses of references and whether you are prepared to give all or part time and if only part time what lines you are now representing. Also please state if you are in a position to travel. Only applicants who are prepared to furnish the very best of references as to character and ability will be considered. Address: Circulation Department, Manufacturers Record, Box 548, Baltimore, Md.

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MANUFACTURERS REPRESENTATIVES AND SALESMEN wanted in industrial centers of U. S., Canada and Mexico to handle nationally known make of oil burners and oil burning specialties on commission basis either exclusively or as a side line. To the right man an exceptional opportunity is open. Previous experience and familiarity with uses of oil burners in manufacturing and other processes is very desirable but not absolutely essential. In reply give full particulars in first letter, stating age, education, training, experience, etc. Address No. 6147 care of Manufacturers Record.

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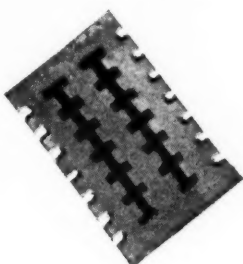
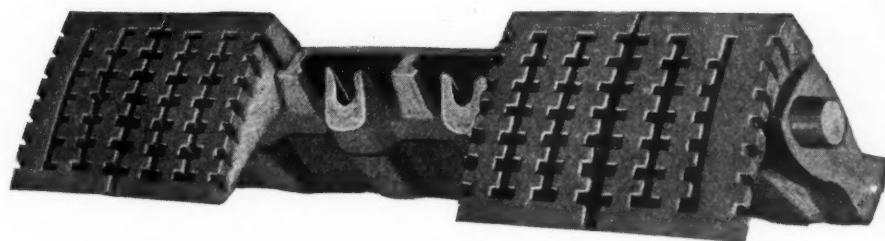
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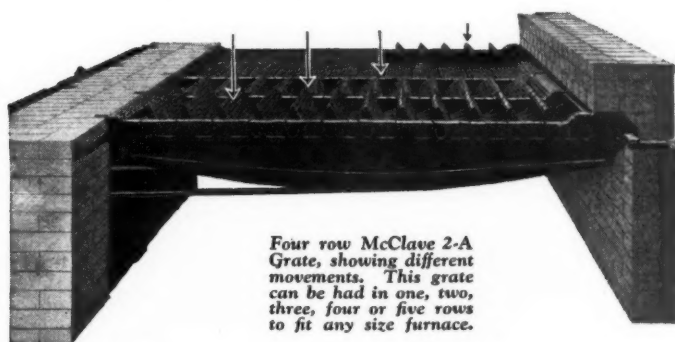
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